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1.338 shebang-command 2.0.0

1.338.1 Available under license

1.339 ini 1.3.8

1.339.1 Available under license

1.340 shebang-regex 3.0.0

1.340.1 Available under license

1.341 pify 2.3.0

1.341.1 Available under license

1.342 pkg-dir 3.0.0

1.342.1 Available under license

1.343 path-exists 3.0.0

1.343.1 Available under license

1.344 pify 4.0.1

1.344.1 Available under license

1.345 make-dir 2.1.0

1.345.1 Available under license

1.346 p-locate 3.0.0

1.346.1 Available under license

1.347 locate-path 3.0.0

1.347.1 Available under license

1.348 p-locate 2.0.0

1.348.1 Available under license

1.349 is-relative 1.0.0

1.349.1 Available under license

1.350 strip-bom 3.0.0

1.350.1 Available under license

1.351 compression 1.7.4

1.351.1 Available under license

1.352 rechoir 0.6.2

1.352.1 Available under license

1.353 is-plain-obj 1.1.0

1.353.1 Available under license

1.354 write-file-atomic 2.4.3

1.354.1 Available under license

1.355 is-unc-path 1.0.0

1.355.1 Available under license

1.356 p-limit 1.3.0

1.356.1 Available under license

1.357 p-try 1.0.0

1.357.1 Available under license

1.358 locate-path 2.0.0

1.358.1 Available under license

1.359 q 1.5.1

1.359.1 Available under license

1.360 is-absolute 1.0.0

1.360.1 Available under license

1.361 pify 3.0.0

1.361.1 Available under license

1.362 unc-path-regex 0.1.2

1.362.1 Available under license

1.363 async-limiter 1.0.1

1.363.1 Available under license

1.364 find-cache-dir 2.1.0

1.364.1 Available under license

1.365 is-stream 2.0.1

1.365.1 Available under license

1.366 jsonfile 6.1.0

1.366.1 Available under license

1.367 nodelib-fs-walk 1.2.8

1.367.1 Available under license

1.368 split2 3.2.2

1.368.1 Available under license

1.369 neo-async 2.6.2

1.369.1 Available under license

1.370 queue-microtask 1.2.3

1.370.1 Available under license

1.371 dot-prop 5.3.0

1.371.1 Available under license

1.372 run-parallel 1.2.0

1.372.1 Available under license

1.373 is-obj 2.0.0

1.373.1 Available under license

1.374 nodelib-fs-stat 2.0.5

1.374.1 Available under license

1.375 nodelib-fs-scandir 2.1.5

1.375.1 Available under license

1.376 read-pkg 3.0.0

1.376.1 Available under license

1.377 es-array-method-boxes-properly 1.0.0

1.377.1 Available under license

1.378 interpret 1.4.0

1.378.1 Available under license

1.379 compressible 2.0.18

1.379.1 Available under license

1.380 pluralize 8.0.0

1.380.1 Available under license

1.381 slice-ansi 2.1.0

1.381.1 Available under license

1.382 path-type 3.0.0

1.382.1 Available under license

1.383 load-json-file 4.0.0

1.383.1 Available under license

1.384 parse-json 4.0.0

1.384.1 Available under license

1.385 resolve-from 3.0.0

1.385.1 Available under license

1.386 is-path-cwd 2.2.0

1.386.1 Available under license

1.387 proto-list 1.2.4

1.387.1 Available under license

1.388 is-arguments 1.1.1

1.388.1 Available under license

1.389 has-flag 4.0.0

1.389.1 Available under license

1.390 supports-color 7.2.0

1.390.1 Available under license

1.391 path-parse 1.0.7

1.391.1 Available under license

1.392 balanced-match 1.0.2

1.392.1 Available under license

1.393 process-nextick-args 2.0.1

1.393.1 Available under license

1.394 lru-cache 6.0.0

1.394.1 Available under license

1.395 is-fullwidth-code-point 3.0.0

1.395.1 Available under license

1.396 color-name 1.1.4

1.396.1 Available under license

1.397 color-convert 2.0.1

1.397.1 Available under license

1.398 sprintf-js 1.0.3

1.398.1 Available under license

1.399 find-up 4.1.0

1.399.1 Available under license

1.400 dedent 0.7.0

1.400.1 Available under license

1.401 wrap-ansi 6.2.0

1.401.1 Available under license

1.402 external-editor 3.1.0

1.402.1 Available under license

1.403 normalize-path 3.0.0

1.403.1 Available under license

1.404 p-locate 4.1.0

1.404.1 Available under license

1.405 cli-cursor 3.1.0

1.405.1 Available under license

1.406 json-buffer 3.0.1

1.406.1 Available under license

1.407 rimraf 2.6.3

1.407.1 Available under license

1.408 tmp 0.0.33

1.408.1 Available under license

1.409 es-to-primitive 1.2.1

1.409.1 Available under license

1.410 xtend 4.0.2

1.410.1 Available under license

1.411 path-exists 4.0.0

1.411.1 Available under license

1.412 locate-path 5.0.0

1.412.1 Available under license

1.413 mimic-fn 2.1.0

1.413.1 Available under license

1.414 decompress-response 6.0.0

1.414.1 Available under license

1.415 restore-cursor 3.1.0

1.415.1 Available under license

1.416 object-keys 1.1.1

1.416.1 Available under license

1.417 end-of-stream 1.4.4

1.417.1 Available under license

1.418 cliui 6.0.0

1.418.1 Available under license

1.419 argparse 1.0.10

1.419.1 Available under license

1.420 mimic-response 3.1.0

1.420.1 Available under license

1.421 bl 4.1.0

1.421.1 Available under license

1.422 chalk 4.1.2

1.422.1 Available under license

1.423 string-width 4.2.3

1.423.1 Available under license

1.424 type-fest 0.21.3

1.424.1 Available under license

1.425 ora 5.4.1

1.425.1 Available under license

1.426 onetime 5.1.2

1.426.1 Available under license

1.427 is-interactive 1.0.0

1.427.1 Available under license

1.428 strip-ansi 6.0.1

1.428.1 Available under license

1.429 get-stream 5.2.0

1.429.1 Available under license

1.430 ieee754 1.2.1

1.430.1 Available under license

1.431 base64-js 1.5.1

1.431.1 Available under license

1.432 buffer 5.7.1

1.432.1 Available under license

1.433 which-boxed-primitive 1.0.2

1.433.1 Available under license

1.434 get-symbol-description 1.0.0

1.434.1 Available under license

1.435 is-date-object 1.0.5

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1.436 is-string 1.0.7

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1.437 has-tostringtag 1.0.0

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1.438 is-regex 1.1.4

1.438.1 Available under license

1.439 core-util-is 1.0.3

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1.440 is-symbol 1.0.4

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1.441 for-each 0.3.3

1.441.1 Available under license

1.442 is-boolean-object 1.1.2

1.442.1 Available under license

1.443 is-bigint 1.0.4
1.443.1 Available under license
1.444 tslib 1.14.1
1.444.1 Available under license
1.445 iterate-value 1.0.2
1.445.1 Available under license
1.446 is-map 2.0.2
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1.447 is-set 2.0.2
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1.448 isarray 2.0.5
1.448.1 Available under license
1.449 is-plain-object 5.0.0
1.449.1 Available under license
1.450 resolve-alpn 1.2.1
1.450.1 Available under license
1.451 quick-lru 5.1.1
1.451.1 Available under license
1.452 defer-to-connect 2.0.1
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1.453 is-weakset 2.0.2
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1.454 is-negative-zero 2.0.2
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1.455 is-weakref 1.0.2
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1.456 string-natural-compare 3.0.1
1.456.1 Available under license
1.457 picomatch 2.3.1
1.457.1 Available under license
1.458 camelcase 6.3.0
1.458.1 Available under license
1.459 supports-preserve-symlinks-flag 1.0.0
1.459.1 Available under license
1.460 shelljs 0.8.5
1.460.1 Available under license
1.461 strnum 1.0.5
1.461.1 Available under license
1.462 import-local 3.1.0

1.462.1 Available under license
1.463 globby 11.1.0
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1.464 array-ify 1.0.0
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1.465 clean-regexp 1.0.0
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1.466 is-text-path 1.0.1
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1.467 safe-regex 2.1.1
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1.468 modify-values 1.0.1
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1.469 deprecation 2.3.1
1.469.1 Available under license
1.470 type-fest 1.4.0
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1.471 signal-exit 3.0.7
1.471.1 Available under license
1.472 negotiator 0.6.3
1.472.1 Available under license
1.473 slash 4.0.0
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1.474 string-length 5.0.1
1.474.1 Available under license
1.475 muesli-reflow 0.3.0
1.475.1 Available under license
1.476 charcodes 0.2.0
1.476.1 Available under license
1.477 jest-types 27.5.1
1.477.1 Available under license
1.478 babel-plugin-proposal-decorators 7.17.2
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1.479 jest-regex-util 27.5.1
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1.480 conventional-recommended-bump 6.1.0
1.480.1 Available under license
1.481 conventional-changelog-preset-loader 2.3.4
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1.482 gitconfiglocal 1.0.0
1.482.1 Available under license
1.483 conventional-changelog-core 4.2.4
1.483.1 Available under license
1.484 conventional-changelog-atom 2.0.8
1.484.1 Available under license
1.485 git-raw-commits 2.0.11
1.485.1 Available under license
1.486 conventional-changelog-writer 5.0.1
1.486.1 Available under license
1.487 meow 8.1.2
1.487.1 Available under license
1.488 conventional-changelog-angular 5.0.13
1.488.1 Available under license
1.489 conventional-changelog-codemirror 2.0.8
1.489.1 Available under license
1.490 conventional-changelog-ember 2.0.9
1.490.1 Available under license
1.491 conventional-commits-filter 2.0.7
1.491.1 Available under license
1.492 conventional-changelog-eslint 3.0.9
1.492.1 Available under license
1.493 jest-worker 27.5.1
1.493.1 Available under license
1.494 minimatch 3.1.2
1.494.1 Available under license
1.495 jest-util 27.5.1
1.495.1 Available under license
1.496 through2 4.0.2
1.496.1 Available under license
1.497 conventional-changelog-jshint 2.0.9
1.497.1 Available under license
1.498 conventional-changelog-jquery 3.0.11
1.498.1 Available under license
1.499 dargs 7.0.0
1.499.1 Available under license
1.500 conventional-commits-parser 3.2.4
1.500.1 Available under license
1.501 get-pkg-repo 4.2.1

1.501.1 Available under license

1.502 git-remote-origin-url 2.0.0

1.502.1 Available under license

1.503 compare-func 2.0.0

1.503.1 Available under license

1.504 add-stream 1.0.0

1.504.1 Available under license

1.505 text-extensions 1.9.0

1.505.1 Available under license

1.506 @hutson/parse-repository-url 3.0.2

1.506.1 Available under license

1.507 conventional-changelog-express 2.0.6

1.507.1 Available under license

1.508 lowercase-keys 3.0.0

1.508.1 Available under license

1.509 p-cancelable 3.0.0

1.509.1 Available under license

1.510 szmarczak-http-timer 5.0.1

1.510.1 Available under license

1.511 formdata-polyfill 4.0.10

1.511.1 Available under license

1.512 brace-expansion 2.0.1

1.512.1 Available under license

1.513 is-ci 3.0.1

1.513.1 Available under license

1.514 debug 4.3.4

1.514.1 Available under license

1.515 mkdirp 0.5.6

1.515.1 Available under license

1.516 micromatch 4.0.5

1.516.1 Available under license

1.517 queue 6.0.2

1.517.1 Available under license

1.518 eastasianwidth 0.2.0

1.518.1 Available under license

1.519 cli-boxes 3.0.0

1.519.1 Available under license

1.520 widest-line 4.0.1

1.520.1 Available under license

1.521 string-width 5.1.2

1.521.1 Available under license

1.522 @types/react 17.0.21

1.522.1 Available under license

1.523 graceful-fs 4.2.10

1.523.1 Available under license

1.524 node-domexception 1.0.0

1.524.1 Available under license

1.525 is-shared-array-buffer 1.0.2

1.525.1 Available under license

1.526 is-number-object 1.0.7

1.526.1 Available under license

1.527 web-streams-polyfill 3.2.1

1.527.1 Available under license

1.528 creack 1.1.18

1.528.1 Available under license

1.529 fs-extra 10.1.0

1.529.1 Available under license

1.530 resolve-global 1.0.0

1.530.1 Available under license

1.531 eslint-plugin-react-native-globals 0.1.2

1.531.1 Available under license

1.532 @octokit/plugin-request-log 1.0.4

1.532.1 Available under license

1.533 has-bigints 1.0.2

1.533.1 Available under license

1.534 functions-have-names 1.2.3

1.534.1 Available under license

1.535 @jridgewell/trace-mapping 0.3.9

1.535.1 Available under license

1.536 unbox-primitive 1.0.2

1.536.1 Available under license

1.537 v8-compile-cache-lib 3.0.1

1.537.1 Available under license

1.538 send 0.18.0

1.538.1 Available under license

1.539 serve-static 1.15.0

1.539.1 Available under license

1.540 jest-get-type 28.0.2

1.540.1 Available under license

1.541 ip 1.1.8

1.541.1 Available under license

1.542 jwalterweatherman 1.1.0

1.542.1 Available under license

1.543 glob 0.2.3

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1.544 glob 7.2.3

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1.545 globalthis 1.0.3

1.545.1 Available under license

1.546 conventional-changelog 3.1.25

1.546.1 Available under license

1.547 conventional-changelog-conventionalcommits 4.6.3

1.547.1 Available under license

1.548 source-map 0.7.4

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1.549 chardet 0.7.0

1.549.1 Available under license

1.550 @tsconfig/node12 1.0.11

1.550.1 Available under license

1.551 @cspotcode/source-map-support 0.8.1

1.551.1 Available under license

1.552 @tsconfig/node14 1.0.3

1.552.1 Available under license

1.553 @tsconfig/node10 1.0.9

1.553.1 Available under license

1.554 @babel/plugin-proposal-optional-catch-binding 7.18.6

1.554.1 Available under license

1.555 babel-plugin-proposal-nullish-coalescing-operator 7.18.6

1.555.1 Available under license

1.556 @iarna/toml 2.2.5

1.556.1 Available under license

1.557 protocols 2.0.1

1.557.1 Available under license

1.558 is-ssh 1.4.0

1.558.1 Available under license

1.559 builtin-modules 3.3.0

1.559.1 Available under license

1.560 kleur 4.1.5

1.560.1 Available under license

1.561 ws 7.5.9

1.561.1 Available under license

1.562 ts-node 10.9.1

1.562.1 Available under license

1.563 fetch-blob 3.2.0

1.563.1 Available under license

1.564 ip 2.0.0

1.564.1 Available under license

1.565 @jest/expect-utils 28.1.3

1.565.1 Available under license

1.566 jest-diff 28.1.3

1.566.1 Available under license

1.567 jest-matcher-utils 28.1.3

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1.568 jest-util 28.1.3

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1.569 pretty-format 28.1.3

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1.570 jest-message-util 28.1.3

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1.571 expect 28.1.3

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1.572 diff-sequences 28.1.1

1.572.1 Available under license

1.573 char-regex 2.0.1

1.573.1 Available under license

1.574 jest-types 28.1.3

1.574.1 Available under license

1.575 wildcard-match 5.1.2

1.575.1 Available under license

1.576 object.assign 4.1.4

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1.577 go-colorable 0.1.13

1.577.1 Available under license

1.578 clean-stack 4.2.0

1.578.1 Available under license

1.579 p-map 5.5.0

1.579.1 Available under license

1.580 read-pkg 6.0.0

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1.581 escape-string-regexp 5.0.0

1.581.1 Available under license

1.582 redent 4.0.0

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1.583 camelcase-keys 7.0.2

1.583.1 Available under license

1.584 read-pkg-up 8.0.0

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1.585 strip-indent 4.0.0

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1.586 aggregate-error 4.0.1

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1.587 indent-string 5.0.0

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1.588 write-file-atomic 4.0.2

1.588.1 Available under license

1.589 types-jest 28.1.8

1.589.1 Available under license

1.590 responselike 3.0.0

1.590.1 Available under license

1.591 regjsparser 0.9.1

1.591.1 Available under license

1.592 unicode-property-aliases-ecmascript 2.1.0

1.592.1 Available under license

1.593 emoji-regex 8.0.0

1.593.1 Available under license

1.594 socks 2.7.1

1.594.1 Available under license

1.595 yaml 1.10.2

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1.596 emoji-regex 9.2.2

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1.597 istanbul-lib-source-maps 4.0.1

1.597.1 Available under license

1.598 fb-watchman 2.0.2

1.598.1 Available under license

1.599 @nicolo-ribaudo/eslint-scope-5-internals 5.1.1-v1

1.599.1 Available under license

1.600 del 6.1.1

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1.601 istanbul-lib-instrument 5.2.1

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1.602 mimic-response 4.0.0

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1.603 defaults 1.0.4

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1.604 charmbracelet-lipgloss 0.6.0

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1.605 promise 8.3.0

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1.606 cliui 8.0.1

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1.607 type-fest 2.19.0

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1.608 eslint-plugin-react-hooks 4.6.0

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1.609 bl 5.1.0

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1.610 fsnotify 1.6.0

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1.611 decamelize-keys 1.1.1

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1.612 emittery 0.13.1

1.612.1 Available under license

1.613 natural-compare-lite 1.4.0

1.613.1 Available under license

1.614 appdirsjs 1.2.7

1.614.1 Available under license

1.615 @sinclair/typebox 0.24.51

1.615.1 Available under license

1.616 uglify-js 3.17.4

1.616.1 Available under license

1.617 error-stack-parser 2.1.4

1.617.1 Available under license

1.618 nocache 3.0.4

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1.619 meow 10.1.5
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1.620 gopd 1.0.1
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1.621 regenerator-runtime 0.13.11
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1.622 stack-utils 2.0.6
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1.623 cosmiconfig 7.1.0
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1.624 safe-regex-test 1.0.0
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1.625 eslint-plugin-prettier 4.2.1
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1.626 is-callable 1.2.7
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1.627 jest-pnp-resolver 1.2.3
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1.628 path-key 4.0.0
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1.629 mimic-fn 4.0.0
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1.631 npm-run-path 5.1.0
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1.638 recast 0.21.5

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1.639 ast-types 0.15.2

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1.640 jsonc-parser 3.2.0

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1.641 before-after-hook 2.2.3

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1.642 global-dirs 3.0.1

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1.643 lodash.upperfirst 4.3.1

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1.644 chalk 5.2.0

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1.646 parse-path 7.0.0

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1.647 parse-url 8.1.0

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1.648 fastq 1.15.0

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1.649 json5 2.2.3

1.649.1 Available under license

1.650 json5 1.0.2

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1.651 @babel/plugin-proposal-object-rest-spread 7.20.7

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1.652 prelude-ls 1.1.2

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1.653 regenerate 1.4.2

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1.654 typedarray-to-buffer 3.1.5

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1.655 react-is 17.0.2

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1.657 react-is 18.2.0

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1.658 react-shallow-renderer 16.15.0

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1.659 commander 9.5.0

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1.660 typed-array-length 1.0.4

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1.661 minimatch 5.1.6

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1.662 @babel/plugin-proposal-async-generator-functions 7.20.7

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1.663 prelude-ls 1.2.1

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1.664 stackframe 1.3.4

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1.665 scheduler 0.23.0

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1.666 glob 8.1.0

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1.667 stop-iteration-iterator 1.0.0

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1.668 es-get-iterator 1.1.3

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1.669 properties 1.8.7

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1.670 gotenv 1.4.2

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1.671 react-refresh 0.4.3

1.671.1 Available under license

1.672 http-cache-semantics 4.1.1

1.672.1 Available under license

1.673 cli-cursor 4.0.0

1.673.1 Available under license

1.674 log-symbols 5.1.0

1.674.1 Available under license

1.675 figures 5.0.0

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1.676 is-unicode-supported 1.3.0

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1.678 is-interactive 2.0.0

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1.679 is-builtin-module 3.2.1

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1.680 minimist 1.2.8

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1.681 eslint-plugin-sonarjs 0.18.0

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1.682 mute-stream 1.0.0

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1.683 x-term 0.5.0

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1.684 yoga 1.14.0

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1.685 node-abort-controller 3.1.1

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1.686 babel-plugin-proposal-optional-chaining 7.21.0

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1.689 is-array-buffer 3.0.2

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1.690 lru-cache 7.18.3

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1.691 inconshreveable-mousetrap 1.1.0

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1.692 spdx-correct 3.2.0

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1.693 tsconfig-paths 3.14.2

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1.694 readable-stream 3.6.2

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1.695 data-uri-to-buffer 4.0.1

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1.696 deepmerge 4.3.1

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1.697 regexpu-core 5.3.2
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1.698 array-buffer-byte-length 1.0.0
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1.699 hosted-git-info 4.1.0
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1.700 graceful-fs 4.2.11
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1.701 libevent 2.1.12
1.701.1 Available under license
1.702 color 1.14.1
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1.703 promise.allsettled 1.0.6
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1.704 x-text 0.9.0
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1.705 jsc-android 250231.0.0
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1.706 cosmiconfig 8.1.3
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1.707 muesli-termenv 0.15.1
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1.708 aymanbagabas-go-osc52 2.0.1
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1.709 camelcase 7.0.1
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1.710 wrap-ansi 8.1.0
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1.711 eslint-module-utils 2.8.0
1.711.1 Available under license
1.712 resolve.exports 2.0.2
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1.713 registry-url 6.0.1
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1.714 eslint-plugin-jest 26.9.0
1.714.1 Available under license
1.715 react-native-builder-bob 0.20.4
1.715.1 Available under license

1.716 new-github-release-url 2.0.0

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1.717 is-yarn-global 0.4.1

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1.718 jetifier 2.0.0

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1.719 issue-parser 6.0.0

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1.720 globby 13.1.4

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1.721 node-fetch 3.3.1

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1.722 spinner 1.23.0

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1.723 configstore 6.0.0

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1.724 titleize 3.0.0

1.724.1 Available under license

1.725 registry-auth-token 5.0.2

1.725.1 Available under license

1.726 @pnpm/config.env-replace 1.1.0

1.726.1 Available under license

1.727 @pnpm/network.ca-file 1.0.2

1.727.1 Available under license

1.728 is-docker 3.0.0

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1.729 os-name 5.1.0

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1.730 unique-string 3.0.0

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1.731 human-signals 4.3.1

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1.732 is-git-repository 2.0.0

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1.733 bundle-name 3.0.0

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1.734 which-module 2.0.1

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1.735 open 9.1.0

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1.736 bplist-parser 0.2.0

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1.737 eslint-plugin-eslint-comments 3.2.0

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1.738 @types/react-native 0.70.0

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1.739 is-npm 6.0.0

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1.740 url-join 5.0.0

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1.742 alessio-shellescape 1.0.0-20170105083845-52074bc9df61

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1.743 default-browser 4.0.0

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1.744 update-notifier 6.0.2

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1.745 define-lazy-prop 3.0.0

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1.747 latest-version 7.0.0

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1.748 eslint-plugin-ft-flow 2.0.3

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1.750 is-inside-container 1.0.0

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1.751 escape-goat 4.0.0

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1.752 @octokit/request-error 3.0.3

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1.753 execa 7.1.1

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1.754 default-browser-id 3.0.0

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1.756 shell-quote 1.8.1

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1.759 crypto-random-string 4.0.0

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1.760 prettier 2.8.8

1.761 xdg-basedir 5.1.0

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1.762 @release-it/conventional-changelog 5.1.1

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1.763 stdin-discarder 0.1.0

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1.764 trim-newlines 4.1.1

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1.768 x-sys 0.8.0

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1.769 cast 1.5.1

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1.770 @tsconfig/node16 1.0.4

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1.771 @sinonjs/commons 3.0.0

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1.772 mattn-go-isatty 0.0.19

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1.778 http-proxy-agent 7.0.0

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1.780 agent-base 7.1.0

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1.782 jsc-safe-url 0.2.4

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1.783 jsesc 3.0.2

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1.784 enhanced-resolve 5.15.0

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1.785 regexp-tree 0.1.27

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1.786 resolve-pkg-maps 1.0.0

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1.787 slash 5.1.0

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1.788 @react-native/js-polyfills 0.72.1

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1.789 scheduler 0.24.0-canary-efb381bbf-20230505

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1.790 @sinonjs/fake-timers 10.3.0

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1.791 babel-plugin-transform-flow-enums 0.0.2

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1.792 jscodeshift 0.14.0

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1.793 flow-enums-runtime 0.0.5

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1.794 cjs-module-lexer 1.2.3

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1.795 @react-native/normalize-colors 0.72.0

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1.796 deprecated-react-native-prop-types 4.1.0

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1.797 pirates 4.0.6

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1.798 @react-native/assets-registry 0.72.0

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1.799 is-finalizationregistry 1.0.2

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1.800 optionator 0.9.3

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1.801 chalk 5.3.0

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1.802 @sinclair/typebox 0.27.8

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1.803 collect-v8-coverage 1.0.2

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1.804 @react-native/gradle-plugin 0.72.11

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1.805 @typescript-eslint/scope-manager 5.62.0

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1.806 typescript-eslint-eslint-plugin 5.62.0

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1.807 @typescript-eslint/types 5.62.0

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1.808 @typescript-eslint/utils 5.62.0

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1.809 @typescript-eslint/visitor-keys 5.62.0

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1.810 typed-array-byte-offset 1.0.0

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1.811 typescript-eslint-parser 5.62.0

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1.812 @typescript-eslint/type-utils 5.62.0

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1.813 typescript-eslint-typescript-estree 5.62.0

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1.814 vscode-nls 5.2.0
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1.816 eslint-plugin-json 3.1.0
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1.817 hermes-estree 0.12.0
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1.818 make-dir 4.0.0
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1.825 sindresorhus-is 5.6.0
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1.827 @es-joy/jsdoccomment 0.36.1
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1.829 word-wrap 1.2.5
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1.830 minimatch 7.4.6
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1.831 jest-extended 3.2.4
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1.832 @octokit/types 9.3.2
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1.833 @octokit/core 4.2.4

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1.837 @octokit/request 6.2.8

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1.838 type-fest 3.13.1

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1.839 pac-proxy-agent 6.0.4

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1.840 macos-release 3.2.0

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1.841 @octokit/auth-token 3.0.4

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1.842 @octokit/graphql 5.0.6

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1.843 @octokit/rest 19.0.11

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1.844 istanbul-reports 3.1.6

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1.845 release-it 15.11.0

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1.846 @appdynamics/react-native-agent 22.12.0

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1.847 vscode-textmate 8.0.0

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1.848 execa 7.2.0

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1.851 @octokit/plugin-rest-endpoint-methods 7.2.3

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1.853 eslint-import-resolver-react-native 0.2.0

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1.854 @octokit/types 10.0.0

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1.855 @octokit/tsconfig 1.0.2

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1.856 @octokit/plugin-paginate-rest 6.1.2

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1.857 @octokit/endpoint 7.0.6

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1.858 typedoc 0.23.28

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1.859 @pnpm/npm-conf 2.2.2

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1.860 windows-release 5.1.1

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1.861 degenerator 4.0.4

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1.862 eslint-plugin-jest-extended 2.0.0

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1.863 eslint-plugin-no-secrets 0.8.9

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1.864 istanbul-lib-report 3.0.1

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1.865 eslint-plugin-unicorn 45.0.2

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1.871 dedent 1.5.1

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1.872 eslint-import-resolver-node 0.3.9

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1.873 @babel/preset-modules 0.1.6-no-external-plugins

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1.874 regenerator-transform 0.15.2

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1.875 gopkg.in-yaml 3.0.1

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1.876 gopkg.in-ini 1.67.0

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1.877 go-toml 2.0.9

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1.878 eslint-visitor-keys 3.4.3

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1.879 handlebarsjs 4.7.8

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1.880 tslib 2.6.2

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1.882 is-async-function 2.0.0

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1.883 eslint-plugin-react 7.33.2

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1.884 asynciterator.prototype 1.0.0

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1.885 which-builtin-type 1.1.3

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1.886 fsevents 2.3.3

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1.887 object.values 1.1.7

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1.888 object.entries 1.1.7

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1.889 function.prototype.name 1.1.6

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1.890 object.fromentries 2.0.7

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1.891 object.hasown 1.1.3

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1.892 object.groupby 1.0.1

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1.893 @react-native/virtualized-lists 0.72.8

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1.894 @jest/schemas 29.6.3

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1.895 jest-types 29.6.3

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1.896 metro-runtime 0.76.8

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1.897 metro-source-map 0.76.8

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1.898 metro-symbolicate 0.76.8

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1.900 jest-get-type 29.6.3

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1.901 reflect.getprototypeof 1.0.4

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1.902 array.prototype.findlastindex 1.2.3

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1.903 babel-plugin-jest-hoist 29.6.3

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1.904 babel-preset-jest 29.6.3

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1.905 array-includes 3.1.7

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1.906 string-prototype-trimstart 1.0.7

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1.907 diff-sequences 29.6.3

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1.908 jest-regex-util 29.6.3

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1.909 babel-register 7.22.15

1.909.1 Available under license

1.910 babel-helper-create-regexp-features-plugin 7.22.15

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1.911 @babel/helper-builder-binary-assignment-operator-visitor 7.22.15

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1.912 jest-source-map 29.6.3

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1.913 arraybuffer.prototype.slice 1.0.2

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1.915 safe-array-concat 1.0.1

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1.916 string-prototype-trim 1.2.8

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1.918 string-prototype-trimend 1.0.7

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1.919 socks-proxy-agent 8.0.2

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1.920 @babel/plugin-syntax-class-properties 7.12.13

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1.921 @babel/plugin-syntax-async-generators 7.8.4

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1.922 @aashutoshrathi/word-wrap 1.2.6

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1.923 @humanwhocodes/module-importer 1.0.1

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1.924 @eslint-community/eslint-utils 4.4.0

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1.925 @babel/plugin-syntax-optional-catch-binding 7.8.3

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1.926 @babel/plugin-syntax-numeric-separator 7.10.4

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1.928 @babel/plugin-syntax-logical-assignment-operators 7.10.4

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1.929 @babel/plugin-syntax-json-strings 7.8.3

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1.930 @babel/plugin-syntax-import-meta 7.10.4

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1.931 @babel/plugin-syntax-object-rest-spread 7.8.3

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1.932 @babel/plugin-syntax-private-property-in-object 7.14.5

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1.933 @babel/plugin-proposal-class-properties 7.18.6

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1.935 @babel/plugin-syntax-class-static-block 7.14.5

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1.936 @babel/regjsgen 0.8.0

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1.937 @babel/helper-optimise-call-expression 7.22.5

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1.938 @babel/helper-skip-transparent-expression-wrappers 7.22.5

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1.939 @babel/plugin-proposal-private-property-in-object 7.21.0-placeholder-for-preset-env.2

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1.940 @babel/helper-annotate-as-pure 7.22.5

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1.941 @babel/plugin-transform-named-capturing-groups-regex 7.22.5

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1.942 @babel/plugin-syntax-unicode-sets-regex 7.18.6

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1.943 @jridgewell/source-map 0.3.5

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1.944 @jest/schemas 28.1.3

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1.945 whatwg-fetch 3.6.19

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1.946 @babel/plugin-transform-react-jsx-development 7.22.5

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1.986 regenerate-unicode-properties 10.1.1

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1.987 @react-native/codegen 0.72.7

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1.988 @jest/create-cache-key-function 29.7.0

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1.990 es-iterator-helpers 1.0.15

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1.991 iterator.prototype 1.1.2

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1.992 metro-cache-key 0.76.8

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1.993 @babel/helper-remap-async-to-generator 7.22.20

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1.994 @react-native-community/cli-server-api 11.3.7

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1.995 metro-transform-worker 0.76.8

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1.996 @react-native-community/cli-plugin-metro 11.3.7

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1.997 react-native 0.72.5

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1.998 metro-file-map 0.76.8

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1.999 @react-native-community/cli-platform-android 11.3.7

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1.1000 metro-minify-terser 0.76.8

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1.1001 @babel/helper-member-expression-to-functions 7.23.0

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1.1002 metro-transform-plugins 0.76.8

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1.1003 @babel/helper-wrap-function 7.22.20

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1.1004 @babel/helper-replace-supers 7.22.20

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1.1007 @react-native-community/cli-hermes 11.3.7

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1.1009 dayjs 1.11.10

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1.1010 metro-minify-uglify 0.76.8

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1.1013 metro-core 0.76.8

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1.1015 metro-react-native-babel-transformer 0.76.8

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* /opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-jar/com/google/gson/JsonDeserializationContext.java
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* /opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-jar/com/google/gson/JsonSerializer.java
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* /opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-jar/com/google/gson/internal/Excluder.java

* /opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-jar/com/google/gson/GsonBuilder.java
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* /opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-jar/com/google/gson/JsonDeserializer.java
* /opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-jar/com/google/gson/internal/$Gson$Preconditions.java
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* /opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-jar/com/google/gson/internal/bind/DateTypeAdapter.java
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* /opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-jar/com/google/gson/internal/UnsafeAllocator.java
* /opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-jar/com/google/gson/internal/ConstructorConstructor.java
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* /opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-jar/com/google/gson/stream/MalformedJsonException.java
* /opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-

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/opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-jar/com/google/gson/stream/JsonWriter.java
* /opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-jar/com/google/gson/stream/JsonToken.java
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* /opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-jar/com/google/gson/FieldAttributes.java
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/opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-jar/com/google/gson/JsonParser.java
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* /opt/cola/permits/145281564_1695307486.9693897/0/gson-2-8-0-sources-6-jar/com/google/gson/internal/bind/MapTypeAdapterFactory.java
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1.2 jdom 2.0.6

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* /opt/cola/permits/173667507_1695324641.7896898/0/annotations-13-0-sources-jar/org/jetbrains/annotations/NonNls.java
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1.4 asm-commons 6.0

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```
*/
/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *            the
 method visitor to which this adapter delegates calls.
   * @param access
   *            the method's access flags (see {@link Opcodes}).
   * @param name
   *            the method's name.
   * @param desc
   *            the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */
```

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/**
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */
```

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*/
/**
   * Constructs a new {@link Textifier}. <i>Subclasses must not use this
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   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */
```

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*/
/**
   * Creates a new JSRInliner. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
```

```
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *
  the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
   *          deprecated.
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type}).
   * @param signature
   *          the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *          the internal names of the method's exception classes (see
   *          {@link Type#getInternalName() getInternalName}). May be
   *          <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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/**
   * Constructs a new {@link LocalVariableAnnotationNode}. Subclasses must
   * not use this constructor. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *   a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *   the path to the annotated type argument, wildcard bound, array
   *   element type, or static inner type within 'typeRef'. May be
   *   <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *   the fist instructions corresponding to the continuous ranges
   *   that make the scope of this local variable (inclusive).
   * @param end
   *   the last instructions corresponding to the continuous ranges
   *   that make the scope of this local variable (exclusive). This
   *   array must have the same size as the 'start' array.
   * @param index
   *   the local variable's index in each range. This array must have
   *   the same size as the 'start' array.
   * @param desc
   *   the class descriptor of
 the annotation class.
   */

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/**
   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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 /opt/cola/permits/176722034_1695327173.963922/0/asm-6-0-sources-jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
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jar/org/objectweb/asm/commons/ClassRemapper.java
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/opt/cola/permits/176722034_1695327173.963922/0/asm-6-0-sources-jar/org/objectweb/asm/tree/analysis/SourceValue.java
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* /opt/cola/permits/176722034_1695327173.963922/0/asm-6-0-sources-jar/org/objectweb/asm/tree/MethodNode.java

1.5 asm-tree 6.0

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*/
/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *          the
 method visitor to which this adapter delegates calls.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */

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*/
/**
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */
```

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jar/org/objectweb/asm/util/ASMifiable.java
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*/
/**
   * Constructs a new {@link Textifier}. Subclasses must not use this
   * constructor. Instead, they must use the {@link #Textifier(int)}
   * version.
   *
   * @throws IllegalStateException
   *   If a subclass calls this constructor.

```
 */
```

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/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
```

```
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *          the fist instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (inclusive).
   * @param end
   *          the last instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (exclusive). This
   *          array must have the same size as the 'start' array.
   * @param index
   *          the local variable's index in each range. This array must have
   *          the same size as the 'start' array.
   * @param desc
   *          the class descriptor of
 the annotation class.
   */
```

Found in path(s):
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/**
   * Creates a new JSRInliner. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *
  the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
   *          deprecated.
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type}).
   * @param signature
   *          the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *          the internal names of the method's exception classes (see
   *          {@link Type#getInternalName() getInternalName}). May be
   *          <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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/**
   * Creates a new {@link AnalyzerAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */

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1.6 esprima 4.0.1

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1.7 jsesc 0.5.0

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1.8 babel-plugin-syntax-nullish-coalescing-operator 7.8.3

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1.9 babel-plugin-syntax-optional-chaining 7.8.3

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1.10 glog 0.3.5

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1.11 babel-core 7.0.0-bridge.0

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1.12 diff 4.0.2

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1.13 temp 0.8.4

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization
created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes

2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Python was created in the early 1990s by Guido van Rossum at Stichting
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as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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// Original can be found at:
//   https://bitbucket.org/lindenlab/llsd
// Modifications by Joshua Bell inexorabletash@gmail.com
//   https://github.com/inexorabletash/polyfill

// ES3/ES5 implementation of the Krhonos Typed Array Specification
//   Ref: http://www.khronos.org/registry/typedarray/specs/latest/
//   Date: 2011-02-01
//
// Variations:
// * Allows typed_array.get/set() as alias for subscripts (typed_array[])

1.51 commondir 1.0.1

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1.54 resolve-from 4.0.0

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1.55 validate-npm-package-license 3.0.4

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validate-npm-package-license
==========

Give me a string and I'll tell you if it's a valid npm package license string.

```javascript
var valid = require('validate-npm-package-license');
```

SPDX license identifiers are valid license strings:

```javascript

var assert = require('assert');
var validSPDXExpression = {
 validForNewPackages: true,
 validForOldPackages: true,
 spdx: true
};

assert.deepEqual(valid('MIT'), validSPDXExpression);
assert.deepEqual(valid('BSD-2-Clause'), validSPDXExpression);
assert.deepEqual(valid('Apache-2.0'), validSPDXExpression);
assert.deepEqual(valid('ISC'), validSPDXExpression);
```

The function will return a warning and suggestion for nearly-correct license identifiers:

```javascript
assert.deepEqual(
 valid('Apache 2.0'),
 {
  validForOldPackages: false,
  validForNewPackages: false,
  warnings: [
   'license should be ' +
   'a valid SPDX license expression (without "LicenseRef"), ' +
   '"UNLICENSED", or ' +
    '"SEE LICENSE IN <filename>",
   'license is similar to the valid expression "Apache-2.0"'
  ]
 }
);
```

SPDX expressions are valid, too ...

```javascript
// Simple SPDX license expression for dual licensing
assert.deepEqual(
 valid('(GPL-3.0-only OR BSD-2-Clause)'),
 validSPDXExpression
);
```

... except if they contain `LicenseRef`:

```javascript
var warningAboutLicenseRef = {
 validForOldPackages: false,
 validForNewPackages: false,
 spdx: true,
 warnings: [
  'license should be ' +
  'a valid SPDX license expression (without "LicenseRef"), ' +
  '"UNLICENSED", or ' +
  '"SEE LICENSE IN <filename>",
 ]
};

assert.deepEqual(
 valid('LicenseRef-Made-Up'),
 warningAboutLicenseRef
);
```

```
assert.deepEqual(
 valid('(MIT OR LicenseRef-Made-Up)'),
 warningAboutLicenseRef
);
```

If you can't describe your licensing terms with standardized SPDX identifiers, put the terms in a file in the package and point users there:

```javascript
assert.deepEqual(
 valid('SEE
 LICENSE IN LICENSE.txt'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'LICENSE.txt'
 }
);

assert.deepEqual(
 valid('SEE LICENSE IN license.md'),
 {
   validForNewPackages: true,
   validForOldPackages: true,
   inFile: 'license.md'
 }
);
```

If there aren't any licensing terms, use `UNLICENSED`:

```javascript
var unlicensed = {
 validForNewPackages: true,
 validForOldPackages: true,
 unlicensed: true
};
assert.deepEqual(valid('UNLICENSED'), unlicensed);
assert.deepEqual(valid('UNLICENCED'), unlicensed);
```

1.56 doctrine 2.1.0

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1.58 safe-buffer 5.1.2

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1.59 path-is-absolute 1.0.1

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1.61 normalize-package-data 2.5.0

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1.62 wrappy 1.0.2

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1.70 string_decoder 1.3.0

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1.72 once 1.4.0

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1.76 on-headers 1.0.2

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1.94 os-tmpdir 1.0.2

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1.135 bser 2.1.1

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1.136 get-caller-file 2.0.5

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1.137 node-int64 0.4.0

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1.138 p-limit 2.3.0

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1.139 spdx-exceptions 2.3.0

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1.140 spdx-expression-parse 3.0.1

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1.141 through2 2.0.5

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1.142 asm 6.0

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*/
/**
   * Creates a new {@link GeneratorAdapter}. Subclasses must not use this
   * constructor. Instead, they must use the

```
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *            the
 method visitor to which this adapter delegates calls.
   * @param access
   *            the method's access flags (see {@link Opcodes}).
   * @param name
   *            the method's name.
   * @param desc
   *            the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */
```

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/**
   * Creates a new JSRInliner. Subclasses must not use this
   * constructor. Instead, they must use the
   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *

```
  the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
   *          deprecated.
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type}).
   * @param signature
   *          the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *          the internal names of the method's exception classes (see
   *          {@link Type#getInternalName() getInternalName}). May be
   *          <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/CurrentFrame.java
*
 /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/FrameNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/ModuleOpenNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/ParameterNode.java
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/TraceModuleVisitor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/MethodWriter.java
*
/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/CheckModuleAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/ModuleProvideNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/FieldWriter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/FieldNode.java
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/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/SmallSet.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/ModuleExportNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/FieldRemapper.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/AnnotationWriter.java
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/CheckMethodAdapter.java
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/ModuleResolutionAttribute.java
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jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/CheckFieldAdapter.java
*
 /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/InsnList.java
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 /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/AnnotationVisitor.java
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/CheckClassAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/AdviceAdapter.java

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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/util/Printer.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-

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/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/FieldInsnNode.java
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tools/ModuleInfoBndPlugin.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
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/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
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*
/opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/ClassWriter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-
jar/org/objectweb/asm/signature/SignatureVisitor.java
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*/
/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *


   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *          the fist instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (inclusive).
   * @param end
   *          the last instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (exclusive). This
   *          array must have the same size as the 'start' array.
   * @param index
   *          the local variable's index in each range. This array must have
   *          the same size as the 'start' array.
   * @param desc
   *          the class descriptor of
```

the annotation class.
*/

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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/TypePath.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/TypeReference.java
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* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/xml/SAXAnnotationAdapter.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/xml/SAXFieldAdapter.java
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 /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/xml/ASMContentHandler.java
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/xml/SAXAdapter.java
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*/
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   * constructor</i>. Instead, they must use the
   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */
```

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/**
   * Constructs a new {@link Textifier}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #Textifier(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */
```

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/**
    * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
    * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
    * version.
    *
    * @throws IllegalStateException
    *             If a subclass calls this constructor.
     */
```

Found in path(s):
* /opt/cola/permits/1138554392_1614291227.62/0/asm-6-0-sources-1-jar/org/objectweb/asm/tree/ClassNode.java

1.143 escape-string-regexp 4.0.0

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1.144 lodash-ismatch 4.4.0

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1.145 lodash 4.17.21

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1.146 asm-util 6.0

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   * {@link #AnalyzerAdapter(int, String, int, String, String, MethodVisitor)}
   * version.
   *
   * @param owner
   *
     the owner's class name.
   * @param access
   *          the method's access flags (see {@link Opcodes}).
   * @param name
   *          the method's name.
   * @param desc
   *          the method's descriptor (see {@link Type Type}).
   * @param mv
   *          the method visitor to which this adapter delegates calls. May
   *          be <tt>null</tt>.
   * @throws IllegalStateException
   *           If a subclass calls this constructor.
   */

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   * {@link #JSRInlinerAdapter(int, MethodVisitor, int, String, String, String, String[])}
   * version.
   *
   * @param mv
   *
  the <code>MethodVisitor</code> to send the resulting inlined
   *          method code to (use <code>null</code> for none).
   * @param access
   *          the method's access flags (see {@link Opcodes}). This
   *          parameter also indicates if the method is synthetic and/or
```

```
   *           deprecated.
   * @param name
   *           the method's name.
   * @param desc
   *           the method's descriptor (see {@link Type}).
   * @param signature
   *           the method's signature. May be <tt>null</tt>.
   * @param exceptions
   *           the internal names of the method's exception classes (see
   *           {@link Type#getInternalName() getInternalName}). May be
   *           <tt>null</tt>.
   * @throws IllegalStateException
   *            If a subclass calls this constructor.
   */
```

Found in path(s):
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/JSRInlinerAdapter.java
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```

```
* THE POSSIBILITY OF SUCH DAMAGE.
*/
/**
   * Constructs a new {@link ClassNode}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the {@link #ClassNode(int)}
   * version.
   *
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
    */
```

Found in path(s):
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/ClassNode.java
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* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/analysis/BasicVerifier.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/Opcodes.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/util/TraceAnnotationVisitor.java
*
 /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/CodeSizeEvaluator.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/IntInsnNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/ModuleProvideNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/SimpleRemapper.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/ModuleOpenNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/VarInsnNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/ModuleRequireNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/RemappingSignatureAdapter.java
*
 /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/MultiANewArrayInsnNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/AnnotationNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/AnnotationWriter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/signature/SignatureWriter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/Handle.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/analysis/AnalyzerException.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/Remapper.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/RemappingClassAdapter.java
*
 /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/analysis/Interpreter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/SerialVersionUIDAdder.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/TryCatchBlockSorter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/analysis/Value.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-

jar/org/objectweb/asm/tree/InnerClassNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/LookupSwitchInsnNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/util/CheckAnnotationAdapter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/FieldWriter.java
*
/opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/util/CheckFieldAdapter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/TableSwitchGenerator.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/Context.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/TableSwitchInsnNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/RemappingFieldAdapter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/ModuleRemapper.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/ModuleResolutionAttribute.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/signature/SignatureReader.java
*
/opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/util/TraceSignatureVisitor.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/util/CheckMethodAdapter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/TypeAnnotationNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/analysis/Subroutine.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/InstructionAdapter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/ClassReader.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/ModuleHashesAttribute.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/FieldInsnNode.java
*
/opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/analysis/SourceInterpreter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/TypeInsnNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/ModuleWriter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-

jar/org/objectweb/asm/tree/FieldNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/LabelNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/analysis/SimpleVerifier.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/SignatureRemapper.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/Label.java
*
/opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/MethodInsnNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/AnnotationRemapper.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/ModuleExportNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/JumpInsnNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/signature/SignatureVisitor.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/MethodNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/Edge.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/analysis/SmallSet.java
*
/opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/ParameterNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/util/TraceModuleVisitor.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/AbstractInsnNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/Attribute.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/analysis/BasicValue.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/MethodWriter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/ModuleTargetAttribute.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/LocalVariableNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/ClassWriter.java
*
/opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/InsnList.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/FrameNode.java

* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/Frame.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/AnnotationVisitor.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/ClassVisitor.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/ByteVector.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/RemappingAnnotationAdapter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/util/TraceFieldVisitor.java
*
 /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/analysis/SourceValue.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/Handler.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/FieldRemapper.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/ModuleVisitor.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/LineNumberNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tools/ModuleInfoBndPlugin.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/analysis/Analyzer.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/util/CheckModuleAdapter.java
*
 /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/analysis/Frame.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/InvokeDynamicInsnNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/util/TraceClassVisitor.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/StaticInitMerger.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/CurrentFrame.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/Item.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/util/Printer.java
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* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/util/CheckClassAdapter.java
*
 /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/LocalVariablesSorter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-

jar/org/objectweb/asm/commons/RemappingMethodAdapter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/util/CheckSignatureAdapter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/analysis/BasicInterpreter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/MethodVisitor.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/InsnNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/ClassRemapper.java
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 /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/Method.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/MethodRemapper.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/util/ASMifier.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/commons/AdviceAdapter.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/IincInsnNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/ModuleNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/LdcInsnNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tools/Retrofitter.java
*
 /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/tree/TryCatchBlockNode.java
* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/FieldVisitor.java
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*/
/**
   * Constructs a new {@link LocalVariableAnnotationNode}. <i>Subclasses must
   * not use this constructor</i>. Instead, they must use the
   * {@link #LocalVariableAnnotationNode(int, TypePath, LabelNode[], LabelNode[], int[], String)}
   * version.
   *

   * @param typeRef
   *          a reference to the annotated type. See {@link TypeReference}.
   * @param typePath
   *          the path to the annotated type argument, wildcard bound, array
   *          element type, or static inner type within 'typeRef'. May be
   *          <tt>null</tt> if the annotation targets 'typeRef' as a whole.
   * @param start
   *          the fist instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (inclusive).
   * @param end
   *          the last instructions corresponding to the continuous ranges
   *          that make the scope of this local variable (exclusive). This
   *          array must have the same size as the 'start' array.
   * @param index
   *          the local variable's index in each range. This array must have
   *          the same size as the 'start' array.
   * @param desc
   *          the class descriptor of
 the annotation class.
   */
```

Found in path(s):

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*/
/**
    * Constructs a new {@link Textifier}. <i>Subclasses must not use this
    * constructor</i>. Instead, they must use the {@link #Textifier(int)}
    * version.
    *
    * @throws IllegalStateException
    *             If a subclass calls this constructor.
     */
```

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* /opt/cola/permits/1144945622_1682004531.104882/0/asm-util-6-0-sources-3-jar/org/objectweb/asm/util/Textifier.java
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*/
/**
   * Creates a new {@link GeneratorAdapter}. <i>Subclasses must not use this
   * constructor</i>. Instead, they must use the
   * {@link #GeneratorAdapter(int, MethodVisitor, int, String, String)}
   * version.
   *
   * @param mv
   *            the
 method visitor to which this adapter delegates calls.
   * @param access
   *            the method's access flags (see {@link Opcodes}).
   * @param name
   *            the method's name.
   * @param desc
   *            the method's descriptor (see {@link Type Type}).
   * @throws IllegalStateException
   *             If a subclass calls this constructor.
   */
```

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1.147 ms 2.1.3

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1.148 fmt 6.2.1

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations (now Zope
Corporation, see http://www.zope.com). In 2001, the Python Software
Foundation (PSF, see http://www.python.org/psf/) was formed, a
non-profit organization created specifically to own Python-related
Intellectual Property. Zope Corporation is a sponsoring member
of
the PSF.

All Python releases are Open Source (see http://www.opensource.org for
the Open Source Definition). Historically, most, but not all, Python
releases have also been GPL-compatible; the table below summarizes
the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes
2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.4.4	2.4.3	2006	PSF	yes
2.5	2.4	2006	PSF	yes
2.5.1	2.5	2007	PSF	yes
2.5.2	2.5.1	2008	PSF	yes
2.5.3	2.5.2	2008	PSF	yes
2.6	2.5	2008	PSF	yes
2.6.1	2.6	2008	PSF	yes
2.6.2	2.6.1	2009	PSF	yes
2.6.3	2.6.2	2009	PSF	yes
2.6.4	2.6.3	2009	PSF	yes
2.6.5	2.6.4	2010	PSF	yes
3.0	2.6	2008	PSF	yes
3.0.1	3.0	2009	PSF	yes
3.1	3.0.1	2009	PSF	yes
3.1.1	3.1	2009	PSF	yes
3.1.2	3.1.1	2010	PSF	yes
3.1.3	3.1.2	2010	PSF	yes
3.1.4	3.1.3	2011	PSF	yes
3.2	3.1	2011	PSF	yes

3.2.1	3.2	2011	PSF	yes
3.2.2	3.2.1	2011	PSF	yes
3.2.3	3.2.2	2012	PSF	yes
3.3.0	3.2	2012	PSF	yes

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1.155 to-regex-range 5.0.1

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1.156 rimraf 3.0.2

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1.158 is-decimal 1.0.4

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1.159 strip-final-newline 2.0.0

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1.161 type-fest 0.8.1

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1.164 npm-run-path 4.0.1

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1.165 abort-controller 3.0.0

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1.166 camelcase 5.3.1

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1.167 array-union 2.1.0

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1.171 human-signals 1.1.1

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A. HISTORY OF THE SOFTWARE
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Python was created in the early 1990s by Guido van Rossum at Stichting
Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands
as a successor of a language called ABC. Guido remains Python's
principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for
National Research Initiatives (CNRI, see http://www.cnri.reston.va.us)
in Reston, Virginia where he released several versions of the
software.

In May 2000, Guido and the Python core development team moved to
BeOpen.com to form the BeOpen PythonLabs team. In October of the same
year, the PythonLabs team moved to Digital Creations, which became
Zope Corporation. In 2001, the Python Software Foundation (PSF, see
https://www.python.org/psf/) was formed, a non-profit organization

created specifically to own Python-related Intellectual Property.
Zope Corporation was a sponsoring member of the PSF.

All
Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release	Derived from	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2 and above	2.1.1	2001-now	PSF	yes

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1.209 resolve-from 5.0.0

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1.210 test-exclude 6.0.0

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1.211 write-file-atomic 3.0.3

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1.212 get-package-type 0.1.0

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1.213 escape-string-regexp 2.0.0

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1.214 babel-preset-current-node-syntax 1.0.1

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1.215 @bcoe/v8-coverage 0.2.3

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1.217 html-escaper 2.0.2

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1.218 execa 4.1.0

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1.219 detect-newline 3.1.0

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1.220 is-alphanumerical 1.0.4

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1.223 is-hexadecimal 1.0.4

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1.224 character-entities-legacy 1.1.4

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1.226 unist-util-stringify-position 2.0.3

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1.227 merge2 1.4.1

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1.228 escodegen 1.14.3

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1.230 p-locate 5.0.0

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1.232 levn 0.4.1

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1.238 quick-lru 4.0.1

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1.241 human-signals 2.1.0

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1.243 supports-color 8.1.1

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1.247 micromark 2.11.4

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1.249 source-map-support 0.5.13

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1.250 hosted-git-info 2.8.9

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1.251 ws 6.2.2

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1.253 yn 3.1.1

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1.255 dist 1.0.0

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Metadata-Version: 1.1
Name: dist
Version: 1.0.0
Summary: Compute distance between two coordinates on the map
Home-page: https://github.com/duboviy/dist
Author: Eugene Duboviy
Author-email: eugene.dubovoy@gmail.com
License: UNKNOWN
Download-URL: https://github.com/duboviy/dist/tarball/1.0.0
Description:

    As more and more apps are using maps, the more demand for geolocation capabilities increase.
    Geolocation is about the reporting of your location to other users,
    as well as associating real-world locations (such as landmarks) to your location.
    This repo helps to accurately calculate the distance between two locations
    and presents a time efficient practical solution,
    that is almost 3 times faster than similar fast pure python implementation.

Keywords: distance,coordinates,map,performance
Platform: UNKNOWN
Classifier: Programming Language :: Python
Classifier:
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Classifier: Intended Audience :: Developers

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1.256 bin 1.0.0

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optipng-bin [![Build Status](https://secure.travis-ci.org/imagemin/optipng-bin.svg?branch=master)](http://travis-ci.org/imagemin/optipng-bin)

> [OptiPNG](http://optipng.sourceforge.net) is a PNG optimizer that recompresses
image files to a smaller size, without losing any information.

Install

```bash
$ npm install --save optipng-bin
```

Usage

```js
var execFile = require('child_process').execFile;
var optipng = require('optipng-bin').path;

execFile(optipng, ['-out', 'output.png', 'input.png'], function (err) {
 if (err) {
  throw err;
 }

 console.log('Image minified!');
});
```

CLI

```bash
$ npm install --global optipng-bin
```

```bash
$ optipng --help
```

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* /opt/cola/permits/1188041113_1628542684.71/0/optipng-bin-1-0-0-tgz/package/README.md

1.257 babel-plugin-syntax-top-level-await 7.14.5

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1.259 acorn-jsx 5.3.2

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1.260 execa 5.1.1

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1.262 type-fest 0.20.2

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1.265 arg 4.1.3

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1.266 json-stream 1.3.5

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1.269 open 6.4.0

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1.270 serialize-error 2.1.0

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1.271 buffer-from 1.1.2

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1.272 binutils 3.21.0

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eviware software ab
NEVER
Runtime
Not for development
win32/x86;linux/ppc64;linux/x86;mac/x86;mac/x64;mac/ppc;linux/x64;win32/x64;linux/ppc
b8w6vxsrc9hgb4m4e5gx5521clxzuz8j54xsgcu2g8kyo6065cf4dkw5359w4c6lrteyanrbqqkm5ca6
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Version: 3.x
Product: JNIWrapper

Product: JxBrowser
Version: 2.x
Licensed to:
License type: Runtime
License info: Not for development
Expiration date: NEVER
Generation date: 26-08-2010
Platforms: win32/x86;linux/x86;mac/x86;mac/x64;mac/ppc;linux/x64;win32/x64
Company: eviware software ab
SigB: 10adh72idjhnahax9wro9p4dmcrw48ryuib185hji9o4dv00tramvzxtvwyh722an4kqqblllo3ficy77
SigA: y5xzgq75bd5uqagrq0zygnzbfeh8758jhnd5e1ekppaar2m2879mmlk1nzzaoste7j8bifqkahlzmsdv

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eviware software ab
NEVER
Runtime
Not for development
win32/x86;win32/x64
qsnu8p4scx5jkpve90det7j8koqdlta080yqf2ve2wvev2ycpij05o79htz53h2rlb78hp8qyhfvolx3
5ugn50g047tv0c855yl5xhv75d41wgvki2h74tmjro33dqiv1buw8k7097bpd3jnwnaqea9mb8vhnokk
Version:
2.x
Product: JExplorer

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eviware software ab
NEVER
Runtime
Not for development
win32/x86;win32/x64
cjvzsd9upa7gakblwm3gfwxm0yi33qrxquape7sijv2vag6ps7nvcf60calz8s0rz316x0ujrbouudyi
rvmnudkr7bfraif2niqt05mj52b3mz1y68rps3l3ex7zk9uvwnq0tsyd588l02n0ycv3qaoxvikns8mk
Version: 2.x
Product: ComfyJ
/*
* $Header: /home/cvs/jakarta-commons/el/LICENSE.txt,v 1.1.1.1 2003/02/04 00:22:24 luehe Exp $

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* $Revision: 1.1.1.1 $
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File: src/main/java/org/apache/commons/ssl/ASN1Util.java

Changes:
Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/KeyStoreBuilder.java

Changes: Modifying the order in which keystore types are tested to more
gracefully comply with the changes in JEP 229 present in Java 9+.
Replacing direct System.out calls with Logger calls.
Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/PKCS8Key.java

Changes: Removing Bouncy Castle classes and linking to the JAR instead.

File: src/main/java/org/apache/commons/ssl/TrustMaterial.java

Changes: Replacing direct printStackTrace calls with Logger calls.

Files: src/main/java/org/apache/commons/ssl/org/bouncycastle/*

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(1)

ExceptionConverter:
The original version of this class was published in an article by Heinz Kabutz.
Read http://www.javaspecialists.co.za/archive/newsletter.do?issue=033&print=yes&locale=en_US
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(2)

SimpleXMLParser:
The original version of this class was published in a JavaWorld article by Steven Brandt:
http://www.javaworld.com/javaworld/javatips/jw-javatip128.html
Jennifer Orr (JavaWorld) wrote: "You have permission to use the code appearing in
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In a mail sent to Bruno Lowagie on January 23, 2008, Brian Burkhalter (@sun.com)
writes: "This code is under a BSD license and supersedes the older codec packages
on which your code is based. It also includes numerous fixes among them
being the
ability to handle a lot of 'broken' TIFFs."

Note that numerous fixes were applied to the code used in iText by Paulo Soares,
but apart from the fixes there were no essential changes between the code that
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FYI: Brian also added: "A bit of history might be in order.
The codec classes that you used originally were based on some classes included with JAI but not strictly part of JAI.
As of Java SE 1.4 an official Image I/O framework was added in javax.imageio.... This frameork supports these formats:

Java 1.4: GIF (read only), JPEG, PNG
Java 1.5: Added support for BMP and WBMP
Java 1.6: Added support for writing GIF

The JAI Image I/O Tools packages (jai-imageio-core) were created to support formats handled by JAI but not included in Java SE as well as some new things like JPEG2000."

(4) the file com/lowagie/text/pdf/codec/TIFFConstants and some other TIFF related code is derived from LIBTIFF:

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1.274 smart-buffer 4.2.0

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1.275 normalize-package-data 3.0.3

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1.276 deep-is 0.1.4

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1.277 tmpl 1.0.5

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1.278 colorette 1.4.0

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1.279 retry 0.13.1

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1.280 available-typed-arrays 1.0.5

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1.281 async-retry 1.3.3

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1.282 is-generator-function 1.0.10

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1.283 create-require 1.1.1

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1.284 unicode-canonical-property-names-ecmascript 2.0.0

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1.285 unicode-match-property-ecmascript 2.0.0

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1.286 ast-types 0.13.4

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1.288 whatwg-url 5.0.0

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1.289 spf13-pflag 1.0.5

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1.290 is-glob 4.0.3

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THE ADVENTURES OF SHERLOCK HOLMES

BY

SIR ARTHUR CONAN DOYLE

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ADVENTURE I. A SCANDAL IN BOHEMIA

I.

To Sherlock Holmes she is always the woman. I have seldom heard him mention her under any other name. In his eyes she eclipses and predominates the whole of her sex. It was not that he felt any emotion akin to love for Irene Adler. All emotions, and that one particularly, were abhorrent to his cold, precise but admirably balanced mind. He was, I take it, the most perfect reasoning and observing machine that the world has seen, but as a lover he would have placed himself in a false position. He never spoke of the softer passions, save with a gibe and a sneer. They were admirable things for the observer--excellent for drawing the veil from men's motives and actions. But for the trained reasoner to admit such intrusions into his own delicate and finely adjusted temperament was to introduce a distracting factor which might throw a doubt upon all his mental results. Grit in a sensitive instrument, or a crack in one of his own high-power lenses, would not be more disturbing than a strong emotion in a nature such as his. And yet there was but one woman to him, and that woman was the late Irene Adler, of dubious and questionable memory.

I had seen little of Holmes lately. My marriage had drifted us away from each other. My own complete happiness, and the home-centred interests which rise up around the man who first finds himself master of his own establishment, were sufficient to absorb all my attention, while Holmes, who loathed every form of society with his whole Bohemian soul, remained in our lodgings in Baker Street, buried among his old books, and alternating from week to week between cocaine and ambition, the drowsiness of the drug, and the fierce energy of his own keen nature. He was still, as ever, deeply attracted by the study of crime, and occupied his immense faculties and extraordinary powers of observation in following out those clues, and clearing up those mysteries which had been abandoned as hopeless by the official police. From time to time I heard some vague account of his doings: of his summons to Odessa in the case of the Trepoff murder, of his clearing up of the singular tragedy of the Atkinson brothers at Trincomalee, and finally of the mission which he had accomplished so delicately and successfully for the reigning family of Holland. Beyond these signs of his activity, however, which I merely shared with all the readers of the daily press, I knew little of my former friend and companion.

One night--it was on the twentieth of March, 1888--I was returning from a journey to a patient (for I had now returned to civil practice), when my way led me through Baker Street. As I passed the well-remembered door, which must always be associated in my mind with my wooing, and with the dark incidents of the Study in Scarlet, I was seized with a keen desire to see Holmes again, and to know how he was employing his extraordinary powers. His rooms were brilliantly lit, and, even as I looked up, I saw his tall, spare figure pass twice in a dark silhouette against the blind. He was pacing the room swiftly, eagerly, with his head sunk upon his chest and his hands clasped behind him. To me, who knew his every mood and habit, his attitude and manner told their own story. He was at work again. He had risen out of his drug-created dreams and was hot upon the scent of some new problem. I rang the bell and was shown up to the chamber which had formerly been in part my own.

His manner was not effusive. It seldom was; but he was glad, I think, to see me. With hardly a word spoken, but with a kindly eye, he waved me to an armchair, threw across his case of cigars, and indicated a spirit case and a gasogene in the corner. Then he stood before the fire and looked me over in his singular introspective fashion.

"Wedlock suits you," he remarked. "I think, Watson, that you have put on seven and a half pounds since I saw you."

"Seven!" I answered.

"Indeed, I should have thought a little more. Just a trifle more, I fancy, Watson. And in practice again, I observe. You did not
tell me that you intended to go into harness."

"Then, how do you know?"

"I see it, I deduce it. How do I know that you have been getting yourself very wet lately, and that you have a most clumsy and careless servant girl?"

"My dear Holmes," said I, "this is too much. You would certainly have been burned, had you lived a few centuries ago. It is true that I had a country walk on Thursday and came home in a dreadful mess, but as I have changed my clothes I can't imagine how you deduce it. As to Mary Jane, she is incorrigible, and my wife has given her notice, but there, again, I fail to see how you work it out."

He chuckled to himself and rubbed his long, nervous hands together.

"It is simplicity itself," said he; "my eyes tell me that on the inside of your left shoe, just where the firelight strikes it, the leather is scored by six almost parallel cuts. Obviously they have been caused by someone who has very carelessly scraped round the edges of the sole in order to remove crusted
mud from it. Hence, you see, my double deduction that you had been out in vile weather, and that you had a particularly malignant boot-slitting specimen of the London slavey. As to your practice, if a gentleman walks into my rooms smelling of iodoform, with a black mark of nitrate of silver upon his right forefinger, and a bulge on the right side of his top-hat to show where he has secreted his stethoscope, I must be dull, indeed, if I do not pronounce him to be an active member of the medical profession."

I could not help laughing at the ease with which he explained his process of deduction. "When I hear you give your reasons," I remarked, "the thing always appears to me to be so ridiculously simple that I could easily do it myself, though at each successive instance of your reasoning I am baffled until you explain your process. And yet I believe that my eyes are as good as yours."

"Quite so," he answered, lighting a cigarette, and throwing himself down into an armchair. "You see,
but you do not observe. The distinction is clear. For example, you have frequently seen the steps which lead up from the hall to this room."

"Frequently."

"How often?"

"Well, some hundreds of times."

"Then how many are there?"

"How many? I don't know."

"Quite so! You have not observed. And yet you have seen. That is just my point. Now, I know that there are seventeen steps, because I have both seen and observed. By the way, since you are interested in these little problems, and since you are good enough to chronicle one or two of my trifling experiences, you may be interested in this." He threw over a sheet of thick, pink-tinted notepaper which had been lying open upon the table. "It came by the last post," said he. "Read it aloud."

The note was undated, and without either signature or address.

"There will call upon you to-night, at a quarter to eight o'clock," it said, "a gentleman who desires to consult you upon a matter of the very deepest moment. Your recent services to one
of the royal houses of Europe have shown that you are one who may safely be trusted with matters which are of an importance which can hardly be exaggerated. This account of you we have from all quarters received. Be in your chamber then at that hour, and do not take it amiss if your visitor wear a mask."

"This is indeed a mystery," I remarked. "What do you imagine that it means?"

"I have no data yet. It is a capital mistake to theorise before one has data. Insensibly one begins to twist facts to suit theories, instead of theories to suit facts. But the note itself. What do you deduce from it?"

I carefully examined the writing, and the paper upon which it was written.

"The man who wrote it was presumably well to do," I remarked, endeavouring to imitate my companion's processes. "Such paper could not be bought under half a crown a packet. It is peculiarly strong and stiff."

"Peculiar--that is the very word," said Holmes. "It is not an English paper at all. Hold it up to the light."

I
did so, and saw a large "E" with a small "g," a "P," and a large "G" with a small "t" woven into the texture of the paper.

"What do you make of that?" asked Holmes.

"The name of the maker, no doubt; or his monogram, rather."

"Not at all. The 'G' with the small 't' stands for 'Gesellschaft,' which is the German for 'Company.' It is a customary contraction like our 'Co.' 'P,' of course, stands for 'Papier.' Now for the 'Eg.' Let us glance at our Continental Gazetteer." He took down a heavy brown volume from his shelves. "Eglow, Eglonitz--here we are, Egria. It is in a German-speaking country--in Bohemia, not far from Carlsbad. 'Remarkable as being the scene of the death of Wallenstein, and for its numerous glass-factories and paper-mills.' Ha, ha, my boy, what do you make of that?" His eyes sparkled, and he sent up a great blue triumphant cloud from his cigarette.

"The paper was made in Bohemia," I said.

"Precisely. And the man who wrote the note is a German. Do you note the peculiar

construction of the sentence--'This account of you we have from all quarters received.' A Frenchman or Russian could not have written that. It is the German who is so uncourteous to his verbs. It only remains, therefore, to discover what is wanted by this German who writes upon Bohemian paper and prefers wearing a mask to showing his face. And here he comes, if I am not mistaken, to resolve all our doubts."

As he spoke there was the sharp sound of horses' hoofs and grating wheels against the curb, followed by a sharp pull at the bell. Holmes whistled.

"A pair, by the sound," said he. "Yes," he continued, glancing out of the window. "A nice little brougham and a pair of beauties. A hundred and fifty guineas apiece. There's money in this case, Watson, if there is nothing else."

"I think that I had better go, Holmes."

"Not a bit, Doctor. Stay where you are. I am lost without my Boswell. And this promises to be interesting. It would be a pity to miss it."

"But your client--"

"Never
mind him. I may want your help, and so may he. Here he comes. Sit down in that armchair, Doctor, and give us your best attention."

A slow and heavy step, which had been heard upon the stairs and in the passage, paused immediately outside the door. Then there was a loud and authoritative tap.

"Come in!" said Holmes.

A man entered who could hardly have been less than six feet six inches in height, with the chest and limbs of a Hercules. His dress was rich with a richness which would, in England, be looked upon as akin to bad taste. Heavy bands of astrakhan were slashed across the sleeves and fronts of his double-breasted coat, while the deep blue cloak which was thrown over his shoulders was lined with flame-coloured silk and secured at the neck with a brooch which consisted of a single flaming beryl. Boots which extended halfway up his calves, and which were trimmed at the tops with rich brown fur, completed the impression of barbaric opulence which was suggested by his whole appearance.
He carried a broad-brimmed hat in his hand, while he wore across the upper part of his face, extending down past the cheekbones, a black vizard mask, which he had apparently adjusted that very moment, for his hand was still raised to it as he entered. From the lower part of the face he appeared to be a man of strong character, with a thick, hanging lip, and a long, straight chin suggestive of resolution pushed to the length of obstinacy.

"You had my note?" he asked with a deep harsh voice and a strongly marked German accent. "I told you that I would call." He looked from one to the other of us, as if uncertain which to address.

"Pray take a seat," said Holmes. "This is my friend and colleague, Dr. Watson, who is occasionally good enough to help me in my cases. Whom have I the honour to address?"

"You may address me as the Count Von Kramm, a Bohemian nobleman. I understand that this gentleman, your friend, is a man of honour and discretion, whom I may trust with a matter of

the most extreme importance. If not, I should much prefer to communicate with you alone."

I rose to go, but Holmes caught me by the wrist and pushed me back into my chair. "It is both, or none," said he. "You may say before this gentleman anything which you may say to me."

The Count shrugged his broad shoulders. "Then I must begin," said he, "by binding you both to absolute secrecy for two years; at the end of that time the matter will be of no importance. At present it is not too much to say that it is of such weight it may have an influence upon European history."

"I promise," said Holmes.

"And I."

"You will excuse this mask," continued our strange visitor. "The august person who employs me wishes his agent to be unknown to you, and I may confess at once that the title by which I have just called myself is not exactly my own."

"I was aware of it," said Holmes dryly.

"The circumstances are of great delicacy, and every precaution has to be taken to quench what might grow to be an immense scandal and seriously compromise one of the reigning families of Europe. To speak plainly, the matter implicates the great House of Ormstein, hereditary kings of Bohemia."

"I was also aware of that," murmured Holmes, settling himself down in his armchair and closing his eyes.

Our visitor glanced with some apparent surprise at the languid, lounging figure of the man who had been no doubt depicted to him as the most incisive reasoner and most energetic agent in Europe. Holmes slowly reopened his eyes and looked impatiently at his gigantic client.

"If your Majesty would condescend to state your case," he remarked, "I should be better able to advise you."

The man sprang from his chair and paced up and down the room in uncontrollable agitation. Then, with a gesture of desperation, he tore the mask from his face and hurled it upon the ground. "You are right," he cried; "I am the King. Why should I attempt to conceal it?"

"Why, indeed?" murmured Holmes. "Your Majesty had not spoken
before I was aware that I was addressing Wilhelm Gottsreich Sigismond von Ormstein, Grand Duke of Cassel-Felstein, and hereditary King of Bohemia."

"But you can understand," said our strange visitor, sitting down once more and passing his hand over his high white forehead, "you can understand that I am not accustomed to doing such business in my own person. Yet the matter was so delicate that I could not confide it to an agent without putting myself in his power. I have come incognito from Prague for the purpose of consulting you."

"Then, pray consult," said Holmes, shutting his eyes once more.

"The facts are briefly these: Some five years ago, during a lengthy visit to Warsaw, I made the acquaintance of the well-known adventuress, Irene Adler. The name is no doubt familiar to you."

"Kindly look her up in my index, Doctor," murmured Holmes without opening his eyes. For many years he had adopted a system of docketing all paragraphs concerning men and things, so that it was difficult to name a subject or a person on which he could not at once furnish information. In this case I found her biography sandwiched in between that of a Hebrew rabbi and that of a staff-commander who had written a monograph upon the deep-sea fishes.

"Let me see!" said Holmes. "Hum! Born in New Jersey in the year 1858. Contralto--hum! La Scala, hum! Prima donna Imperial Opera of Warsaw--yes! Retired from operatic stage--ha! Living in London--quite so! Your Majesty, as I understand, became entangled with this young person, wrote her some compromising letters, and is now desirous of getting those letters back."

"Precisely so. But how--"

"Was there a secret marriage?"

"None."

"No legal papers or certificates?"

"None."

"Then I fail to follow your Majesty. If this young person should produce her letters for blackmailing or other purposes, how is she to prove their authenticity?"

"There is the writing."

"Pooh, pooh! Forgery."

"My private note-paper."

"Stolen."

"My own seal."

"Imitated."

"My photograph."

"Bought."

"We were both in the photograph."

"Oh, dear! That is very bad! Your Majesty has indeed committed an indiscretion."

"I was mad--insane."

"You have compromised yourself seriously."

"I was only Crown Prince then. I was young. I am but thirty now."

"It must be recovered."

"We have tried and failed."

"Your Majesty must pay. It must be bought."

"She will not sell."

"Stolen, then."

"Five attempts have been made. Twice burglars in my pay ransacked her house. Once we diverted her luggage when she travelled. Twice she has been waylaid. There has been no result."

"On the contrary, Watson, you can see everything. You fail, however, to reason from what you see. You are too timid in drawing your inferences."

"Then, pray tell me what it is that you can infer from this hat?"

He picked it up and gazed at it in the peculiar introspective fashion which was characteristic of him. "It is perhaps less suggestive than it might have been," he remarked, "and
yet there are a few inferences which are very distinct, and a few others which represent at least a strong balance of probability. That the man was highly intellectual is of course obvious upon the face of it, and also that he was fairly well-to-do within the last three years, although he has now fallen upon evil days. He had foresight, but has less now than formerly, pointing to a moral retrogression, which, when taken with the decline of his fortunes, seems to indicate some evil influence, probably drink, at work upon him. This may account also for the obvious fact that his wife has ceased to love him."

"My dear Holmes!"

"He has, however, retained some degree of self-respect," he continued, disregarding my remonstrance. "He is a man who leads a sedentary life, goes out little, is out of training entirely, is middle-aged, has grizzled hair which he has had cut within the last few days, and which he anoints with lime-cream. These are the more patent facts which are to be deduced from
his hat. Also, by the way, that it is extremely improbable that he has gas laid on in his house."

"You are certainly joking, Holmes."

"Not in the least. Is it possible that even now, when I give you these results, you are unable to see how they are attained?"

"I have no doubt that I am very stupid, but I must confess that I am unable to follow you. For example, how did you deduce that this man was intellectual?"

For answer Holmes clapped the hat upon his head. It came right over the forehead and settled upon the bridge of his nose. "It is a question of cubic capacity," said he; "a man with so large a brain must have something in it."

"The decline of his fortunes, then?"

"This hat is three years old. These flat brims curled at the edge came in then. It is a hat of the very best quality. Look at the band of ribbed silk and the excellent lining. If this man could afford to buy so expensive a hat three years ago, and has had no hat since, then he has assuredly gone down in the world."

"Well,
that is clear enough, certainly. But how about the foresight and the moral retrogression?"

Sherlock Holmes laughed. "Here is the foresight," said he putting his finger upon the little disc and loop of the hat-securer. "They are never sold upon hats. If this man ordered one, it is a sign of a certain amount of foresight, since he went out of his way to take this precaution against the wind. But since we see that he has broken the elastic and has not troubled to replace it, it is obvious that he has less foresight now than formerly, which is a distinct proof of a weakening nature. On the other hand, he has endeavoured to conceal some of these stains upon the felt by daubing them with ink, which is a sign that he has not entirely lost his self-respect."

"Your reasoning is certainly plausible."

"The further points, that he is middle-aged, that his hair is grizzled, that it has been recently cut, and that he uses lime-cream, are all to be gathered from a close examination of
the lower part of the lining. The lens discloses a large number of hair-ends, clean cut by the scissors of the barber. They all appear to be adhesive, and there is a distinct odour of lime-cream. This dust, you will observe, is not the gritty, grey dust of the street but the fluffy brown dust of the house, showing that it has been hung up indoors most of the time, while the marks of moisture upon the inside are proof positive that the wearer perspired very freely, and could therefore, hardly be in the best of training."

"But his wife--you said that she had ceased to love him."

"This hat has not been brushed for weeks. When I see you, my dear Watson, with a week's accumulation of dust upon your hat, and when your wife allows you to go out in such a state, I shall fear that you also have been unfortunate enough to lose your wife's affection."

"But he might be a bachelor."

"Nay, he was bringing home the goose as a peace-offering to his wife. Remember the card upon the bird's leg."

"You
have an answer to everything. But how on earth do you deduce that the gas is not laid on in his house?"

"One tallow stain, or even two, might come by chance; but when I see no less than five, I think that there can be little doubt that the individual must be brought into frequent contact with burning tallow--walks upstairs at night probably with his hat in one hand and a guttering candle in the other. Anyhow, he never got tallow-stains from a gas-jet. Are you satisfied?"

"Well, it is very ingenious," said I, laughing; "but since, as you said just now, there has been no crime committed, and no harm done save the loss of a goose, all this seems to be rather a waste of energy."

Sherlock Holmes had opened his mouth to reply, when the door flew open, and Peterson, the commissionaire, rushed into the apartment with flushed cheeks and the face of a man who is dazed with astonishment.

"The goose, Mr. Holmes! The goose, sir!" he gasped.

"Eh? What of it, then? Has it returned to life and
flapped off through the kitchen window?" Holmes twisted himself round upon the sofa to get a fairer view of the man's excited face.

"See here, sir! See what my wife found in its crop!" He held out his hand and displayed upon the centre of the palm a brilliantly scintillating blue stone, rather smaller than a bean in size, but of such purity and radiance that it twinkled like an electric point in the dark hollow of his hand.

Sherlock Holmes sat up with a whistle. "By Jove, Peterson!" said he, "this is treasure trove indeed. I suppose you know what you have got?"

"A diamond, sir? A precious stone. It cuts into glass as though it were putty."

"It's more than a precious stone. It is the precious stone."

"Not the Countess of Morcar's blue carbuncle!" I ejaculated.

"Precisely so. I ought to know its size and shape, seeing that I have read the advertisement about it in The Times every day lately. It is absolutely unique, and its value can only be conjectured, but the reward offered of
$1000 is certainly not within a twentieth part of the market price."

"A thousand pounds! Great Lord of mercy!" The commissionaire plumped down into a chair and stared from one to the other of us.

"That is the reward, and I have reason to know that there are sentimental considerations in the background which would induce the Countess to part with half her fortune if she could but recover the gem."

"It was lost, if I remember aright, at the Hotel Cosmopolitan," I remarked.

"Precisely so, on December 22nd, just five days ago. John Horner, a plumber, was accused of having abstracted it from the lady's jewel-case. The evidence against him was so strong that the case has been referred to the Assizes. I have some account of the matter here, I believe." He rummaged amid his newspapers, glancing over the dates, until at last he smoothed one out, doubled it over, and read the following paragraph:

"Hotel Cosmopolitan Jewel Robbery. John Horner, 26, plumber, was brought up upon the charge of
having upon the 22nd inst., abstracted from the jewel-case of the Countess of Morcar the valuable gem known as the blue carbuncle. James Ryder, upper-attendant at the hotel, gave his evidence to the effect that he had shown Horner up to the dressing-room of the Countess of Morcar upon the day of the robbery in order that he might solder the second bar of the grate, which was loose. He had remained with Horner some little time, but had finally been called away. On returning, he found that Horner had disappeared, that the bureau had been forced open, and that the

small morocco casket in which, as it afterwards transpired, the Countess was accustomed to keep her jewel, was lying empty upon the dressing-table. Ryder instantly gave the alarm, and Horner was arrested the same evening; but the stone could not be found either upon his person or in his rooms. Catherine Cusack, maid to the Countess, deposed to having heard Ryder's cry of dismay on discovering the robbery, and to having rushed into the room, where she found matters as described by the last witness. Inspector Bradstreet, B division, gave evidence as to the arrest of Horner, who struggled frantically, and protested his innocence in the strongest terms. Evidence of a previous conviction for robbery having been given against the prisoner, the magistrate refused to deal summarily with the offence, but referred it to the Assizes. Horner, who had shown signs of intense emotion during the proceedings, fainted away at the conclusion and was carried out of court."

"Hum! So much for the police-court," said Holmes thoughtfully, tossing aside the paper. "The question for us now to solve is the sequence of events leading from a rifled jewel-case at one end to the crop of a goose in Tottenham Court Road at the other. You see, Watson, our little deductions have suddenly assumed a much more important and less innocent aspect. Here is the stone; the stone came from the goose, and the goose came from Mr. Henry Baker, the gentleman with the bad hat and all the other characteristics with which I have bored you. So now we must set ourselves very seriously to finding this gentleman and ascertaining what part he has played in this little mystery. To do this, we must try the simplest means first, and these lie undoubtedly in an advertisement in all the evening papers. If this fail, I shall have recourse to other methods."

"What will you say?"

"Give me a pencil and that slip of paper. Now, then: 'Found at the corner of Goodge Street, a goose and a black felt hat. Mr. Henry Baker can have the same by applying at 6:30 this evening at 221B, Baker Street.' That is clear and concise."

"Very. But will he see it?"

"Well, he is sure to keep an eye on the papers, since, to a poor man, the loss was a heavy one. He was clearly so scared by his mischance in breaking the window and by the approach of Peterson that he thought of nothing but flight, but since then he must have bitterly regretted the impulse which caused him to drop his bird. Then, again, the introduction of his name will cause him to see it, for everyone who knows him will direct his attention to it. Here you are, Peterson, run down to the advertising agency and have this put in the evening papers."

"In which, sir?"

"Oh, in the Globe, Star, Pall Mall, St. James's, Evening News, Standard, Echo, and any others that occur to you."

"Very well, sir. And this stone?"

"Ah, yes, I shall keep the stone. Thank you. And, I say, Peterson, just buy a goose on your way back and leave it here with me, for we must have one to give to this gentleman in place of the one which your family is now devouring."

When the commissionaire had gone, Holmes took up the stone and held it against the light. "It's a bonny thing," said he. "Just see how it glints and sparkles. Of course it is a nucleus and focus of crime. Every good stone is. They are the devil's pet baits. In the larger and older jewels every facet may stand for a bloody deed. This stone is not yet

twenty years old. It was found in the banks of the Amoy River in southern China and is remarkable in having every characteristic of the carbuncle, save that it is blue in shade instead of ruby red. In spite of its youth, it has already a sinister history. There have been two murders, a vitriol-throwing, a suicide, and several robberies brought about for the sake of this forty-grain weight of crystallised charcoal. Who would think that so pretty a toy would be a purveyor to the gallows and the prison? I'll lock it up in my strong box now and drop a line to the Countess to say that we have it."

"Do you think that this man Horner is innocent?"

"I cannot tell."

"Well, then, do you imagine that this other one, Henry Baker, had anything to do with the matter?"

"It is, I think, much more likely that Henry Baker is an absolutely innocent man, who had no idea that the bird which he was carrying was of considerably more value than if it were made of solid gold. That, however, I shall determine by a very simple test if we have an answer to our advertisement."

"And you can do nothing until then?"

"Nothing."

"In that case I shall continue my professional round. But I shall come back in the evening at the hour you have mentioned, for I should like to see the solution of so tangled a business."

"Very glad to see you. I dine at seven. There is a woodcock, I believe. By the way, in view of recent occurrences, perhaps I ought to ask Mrs. Hudson to examine its crop."

I had been delayed at a case, and it was a little after half-past six when I found myself in Baker Street once more. As I approached the house I saw a tall man in a Scotch bonnet with a coat which was buttoned up to his chin waiting outside in the bright semicircle which was thrown from the fanlight. Just as I arrived the door was opened, and we were shown up together to Holmes' room.

"Mr. Henry Baker, I believe," said he, rising from his armchair and greeting his visitor with the easy air of geniality which he
could so readily assume. "Pray take this chair by the fire, Mr. Baker. It is a cold night, and I observe that your circulation is more adapted for summer than for winter. Ah, Watson, you have just come at the right time. Is that your hat, Mr. Baker?"

"Yes, sir, that is undoubtedly my hat."

He was a large man with rounded shoulders, a massive head, and a broad, intelligent face, sloping down to a pointed beard of grizzled brown. A touch of red in nose and cheeks, with a slight tremor of his extended hand, recalled Holmes' surmise as to his habits. His rusty black frock-coat was buttoned right up in front, with the collar turned up, and his lank wrists protruded from his sleeves without a sign of cuff or shirt. He spoke in a slow staccato fashion, choosing his words with care, and gave the impression generally of a man of learning and letters who had had ill-usage at the hands of fortune.

"We have retained these things for some days," said Holmes, "because we expected to see an advertisement

from you giving your address. I am at a loss to know now why you did not advertise."

Our visitor gave a rather shamefaced laugh. "Shillings have not been so plentiful with me as they once were," he remarked. "I had no doubt that the gang of roughs who assaulted me had carried off both my hat and the bird. I did not care to spend more money in a hopeless attempt at recovering them."

"Very naturally. By the way, about the bird, we were compelled to eat it."

"To eat it!" Our visitor half rose from his chair in his excitement.

"Yes, it would have been of no use to anyone had we not done so. But I presume that this other goose upon the sideboard, which is about the same weight and perfectly fresh, will answer your purpose equally well?"

"Oh, certainly, certainly," answered Mr. Baker with a sigh of relief.

"Of course, we still have the feathers, legs, crop, and so on of your own bird, so if you wish--"

The man burst into a hearty laugh. "They might be useful to me as relics of my adventure," said he, "but beyond that I can hardly see what use the disjecta membra of my late acquaintance are going to be to me. No, sir, I think that, with your permission, I will confine my attentions to the excellent bird which I perceive upon the sideboard."

Sherlock Holmes glanced sharply across at me with a slight shrug of his shoulders.

"There is your hat, then, and there your bird," said he. "By the way, would it bore you to tell me where you got the other one from? I am somewhat of a fowl fancier, and I have seldom seen a better grown goose."

"Certainly, sir," said Baker, who had risen and tucked his newly gained property under his arm. "There are a few of us who frequent the Alpha Inn, near the Museum--we are to be found in the Museum itself during the day, you understand. This year our good host, Windigate by name, instituted a goose club, by which, on consideration of some few pence every week, we were each to receive a bird at Christmas. My pence were duly paid, and the rest is familiar to you. I am much indebted to you, sir, for a Scotch bonnet is fitted neither to my years nor my gravity." With a comical pomposity of manner he bowed solemnly to both of us and strode off upon his way.

"So much for Mr. Henry Baker," said Holmes when he had closed the door behind him. "It is quite certain that he knows nothing whatever about the matter. Are you hungry, Watson?"

"Not particularly."

"Then I suggest that we turn our dinner into a supper and follow up this clue while it is still hot."

"By all means."

It was a bitter night, so we drew on our ulsters and wrapped cravats about our throats. Outside, the stars were shining coldly in a cloudless sky, and the breath of the passers-by blew out into smoke like so many pistol shots. Our footfalls rang out crisply and loudly as we swung through the doctors' quarter, Wimpole Street, Harley Street, and so through Wigmore Street into Oxford Street. In a quarter of an hour we were in Bloomsbury at the Alpha

Inn, which is a small public-house at the corner of one of the streets which runs down into Holborn. Holmes pushed open the door of the private bar and ordered two glasses of beer from the ruddy-faced, white-aproned landlord.

"Your beer should be excellent if it is as good as your geese," said he.

"My geese!" The man seemed surprised.

"Yes. I was speaking only half an hour ago to Mr. Henry Baker, who was a member of your goose club."

"Ah! yes, I see. But you see, sir, them's not our geese."

"Indeed! Whose, then?"

"Well, I got the two dozen from a salesman in Covent Garden."

"Indeed? I know some of them. Which was it?"

"Breckinridge is his name."

"Ah! I don't know him. Well, here's your good health landlord, and prosperity to your house. Good-night."

"Now for Mr. Breckinridge," he continued, buttoning up his coat as we came out into the frosty air. "Remember, Watson that though we have so homely a thing as a goose at one end of this chain, we have at the other a man who will
certainly get seven years' penal servitude unless we can establish his innocence. It is possible that our inquiry may but confirm his guilt; but, in any case, we have a line of investigation which has been missed by the police, and which a singular chance has placed in our hands. Let us follow it out to the bitter end. Faces to the south, then, and quick march!"

We passed across Holborn, down Endell Street, and so through a zigzag of slums to Covent Garden Market. One of the largest stalls bore the name of Breckinridge upon it, and the proprietor a horsey-looking man, with a sharp face and trim side-whiskers was helping a boy to put up the shutters.

"Good-evening. It's a cold night," said Holmes.

The salesman nodded and shot a questioning glance at my companion.

"Sold out of geese, I see," continued Holmes, pointing at the bare slabs of marble.

"Let you have five hundred to-morrow morning."

"That's no good."

"Well, there are some on the stall with the gas-flare."

"Ah, but I was
recommended to you."

"Who by?"

"The landlord of the Alpha."

"Oh, yes; I sent him a couple of dozen."

"Fine birds they were, too. Now where did you get them from?"

To my surprise the question provoked a burst of anger from the salesman.

"Now, then, mister," said he, with his head cocked and his arms akimbo, "what are you driving at? Let's have it straight, now."

"It is straight enough. I should like to know who sold you the geese which you supplied to the Alpha."

"Well then, I shan't tell you. So now!"

"Oh, it is a matter of no importance; but I don't know why you should be so warm over such a trifle."

"Warm! You'd be as warm, maybe, if you were as pestered as I am. When I pay good money for a good article there should be an end of the business; but it's 'Where are the geese?' and 'Who did you sell the geese to?' and 'What will you take for the geese?' One would think they were the only geese in the world, to hear the fuss that is made over them."

"Well, I have no connection
with any other people who have been making inquiries," said Holmes carelessly. "If you won't tell us the bet is off, that is all. But I'm always ready to back my opinion on a matter of fowls, and I have a fiver on it that the bird I ate is country bred."

"Well, then, you've lost your fiver, for it's town bred," snapped the salesman.

"It's nothing of the kind."

"I say it is."

"I don't believe it."

"D'you think you know more about fowls than I, who have handled them ever since I was a nipper? I tell you, all those birds that went to the Alpha were town bred."

"You'll never persuade me to believe that."

"Will you bet, then?"

"It's merely taking your money, for I know that I am right. But I'll have a sovereign on with you, just to teach you not to be obstinate."

The salesman chuckled grimly. "Bring me the books, Bill," said he.

The small boy brought round a small thin volume and a great greasy-backed one, laying them out together beneath the hanging lamp.

"Now then, Mr. Cocksure,"
said the salesman, "I thought that I was out of geese, but before I finish you'll find that there is still one left in my shop. You see this little book?"

"Well?"

"That's the list of the folk from whom I buy. D'you see? Well, then, here on this page are the country folk, and the numbers after their names are where their accounts are in the big ledger. Now, then! You see this other page in red ink? Well, that is a list of my town suppliers. Now, look at that third name. Just read it out to me."

"Mrs. Oakshott, 117, Brixton Road--249," read Holmes.

"Quite so. Now turn that up in the ledger."

Holmes turned to the page indicated. "Here you are, 'Mrs. Oakshott, 117, Brixton Road, egg and poultry supplier.' "

"Now, then, what's the last entry?"

" 'December 22nd. Twenty-four geese at 7s. 6d.' "

"Quite so. There you are. And underneath?"

" 'Sold to Mr. Windigate of the Alpha, at 12s.' "

"What have you to say now?"

Sherlock Holmes looked deeply chagrined. He drew a sovereign from
his pocket and threw it down upon the slab, turning away with the air of a man whose disgust is too deep for words. A few yards off he stopped under a lamp-post and laughed in the hearty, noiseless fashion which was peculiar to him.

"When you see a man with whiskers of that cut and the 'Pink 'un' protruding out of his pocket, you can always draw him by a bet," said he. "I daresay that if I had put $100 down in front of him, that man would not have given me such complete information as was drawn from him by the idea that he was doing me on a wager. Well, Watson, we are, I fancy, nearing the end of our quest, and the only point which remains to be determined is whether we should go on to this Mrs. Oakshott to-night, or whether we should reserve it for to-morrow. It is clear from what that surly fellow said that there are others besides ourselves who are anxious about the matter, and I should--"

His remarks were suddenly cut short by a loud hubbub which broke out from the stall which we
had just left. Turning round we saw a little rat-faced fellow standing in the centre of the circle of yellow light which was thrown by the swinging lamp, while Breckinridge, the salesman, framed in the door of his stall, was shaking his fists fiercely at the cringing figure.

"I've had enough of you and your geese," he shouted. "I wish you were all at the devil together. If you come

pestering me any more with your silly talk I'll set the dog at you. You bring Mrs. Oakshott here and I'll answer her, but what have you to do with it? Did I buy the geese off you?"

"No; but one of them was mine all the same," whined the little man.

"Well, then, ask Mrs. Oakshott for it."

"She told me to ask you."

"Well, you can ask the King of Proosia, for all I care. I've had enough of it. Get out of this!" He rushed fiercely forward, and the inquirer flitted away into the darkness.

"Ha! this may save us a visit to Brixton Road," whispered Holmes. "Come with me, and we will see what is to be made of
this fellow." Striding through the scattered knots of people who lounged round the flaring stalls, my companion speedily overtook the little man and touched him upon the shoulder. He sprang round, and I could see in the gas-light that every vestige of colour had been driven from his face.

"Who are you, then? What do you want?" he asked in a quavering voice.

"You will excuse me," said Holmes blandly, "but I could not help overhearing the questions which you put to the salesman just now. I think that I could be of assistance to you."

"You? Who are you? How could you know anything of the matter?"

"My name is Sherlock Holmes. It is my business to know what other people don't know."

"But you can know nothing of this?"

"Excuse me, I know everything of it. You are endeavouring to trace some geese which were sold by Mrs. Oakshott, of Brixton Road, to a salesman named Breckinridge, by him in turn to Mr. Windigate, of the Alpha, and by him to his club, of which Mr. Henry Baker is a member."

"Oh,
sir, you are the very man whom I have longed to meet," cried the little fellow with outstretched hands and quivering fingers. "I can hardly explain to you how interested I am in this matter."

Sherlock Holmes hailed a four-wheeler which was passing. "In that case we had better discuss it in a cosy room rather than in this wind-swept market-place," said he. "But pray tell me, before we go farther, who it is that I have the pleasure of assisting."

The man hesitated for an instant. "My name is John Robinson," he answered with a sidelong glance.

"No, no; the real name," said Holmes sweetly. "It is always awkward doing business with an alias."

A flush sprang to the white cheeks of the stranger. "Well then," said he, "my real name is James Ryder."

"Precisely so. Head attendant at the Hotel Cosmopolitan. Pray step into the cab, and I shall soon be able to tell you

everything which you would wish to know."

The little man stood glancing from one to the other of us with half-frightened, half-hopeful eyes, as one who is not sure whether he is on the verge of a windfall or of a catastrophe. Then he stepped into the cab, and in half an hour we were back in the sitting-room at Baker Street. Nothing had been said during our drive, but the high, thin breathing of our new companion, and the claspings and unclaspings of his hands, spoke of the nervous tension within him.

"Here we are!" said Holmes cheerily as we filed into the room. "The fire looks very seasonable in this weather. You look cold, Mr. Ryder. Pray take the basket-chair. I will just put on my slippers before we settle this little matter of yours. Now, then! You want to know what became of those geese?"

"Yes, sir."

"Or rather, I fancy, of that goose. It was one bird, I imagine in which you were interested--white, with a black bar across the tail."

Ryder quivered with emotion. "Oh, sir," he cried, "can you tell me where it went to?"

"It came here."

"Here?"

"Yes, and a most remarkable bird it proved. I don't wonder that you should take an interest in it. It laid an egg after it was dead--the bonniest, brightest little blue egg that ever was seen. I have it here in my museum."

Our visitor staggered to his feet and clutched the mantelpiece with his right hand. Holmes unlocked his strong-box and held up the blue carbuncle, which shone out like a star, with a cold, brilliant, many-pointed radiance. Ryder stood glaring with a drawn face, uncertain whether to claim or to disown it.

"The game's up, Ryder," said Holmes quietly. "Hold up, man, or you'll be into the fire! Give him an arm back into his chair, Watson. He's not got blood enough to go in for felony with impunity. Give him a dash of brandy. So! Now he looks a little more human. What a shrimp it is, to be sure!"

For a moment he had staggered and nearly fallen, but the brandy brought a tinge of colour into his cheeks, and he sat staring with frightened eyes at his accuser.

"I have almost every link in my hands, and all the proofs which I could possibly need, so there is little which you need tell me. Still, that little may as well be cleared up to make the case complete. You had heard, Ryder, of this blue stone of the Countess of Morcar's?"

"It was Catherine Cusack who told me of it," said he in a crackling voice.

"I see--her ladyship's waiting-maid. Well, the temptation of sudden wealth so easily acquired was too much for you, as it has been for better men before you; but you were not very scrupulous in the means you used. It seems to me, Ryder, that there is the making of a very pretty villain in you. You knew that this man Horner, the plumber, had been concerned in some such matter before, and that suspicion would rest the more readily upon him. What did you

do, then? You made some small job in my lady's room--you and your confederate Cusack--and you managed that he should be the man sent for. Then, when he had left, you rifled the jewel-case, raised the alarm, and had this unfortunate man arrested. You then--"

Ryder
threw himself down suddenly upon the rug and clutched at my companion's knees. "For God's sake, have mercy!" he shrieked. "Think of my father! Of my mother! It would break their hearts. I never went wrong before! I never will again. I swear it. I'll swear it on a Bible. Oh, don't bring it into court! For Christ's sake, don't!"

"Get back into your chair!" said Holmes sternly. "It is very well to cringe and crawl now, but you thought little enough of this poor Horner in the dock for a crime of which he knew nothing."

"I will fly, Mr. Holmes. I will leave the country, sir. Then the charge against him will break down."

"Hum! We will talk about that. And now let us hear a true account of the next act. How came the stone into the goose, and how came the goose into the open market? Tell us the truth, for there lies your only hope of safety."

Ryder passed his tongue over his parched lips. "I will tell you it just as it happened, sir," said he. "When Horner had been arrested,
it seemed to me that it would be best for me to get away with the stone at once, for I did not know at what moment the police might not take it into their heads to search me and my room. There was no place about the hotel where it would be safe. I went out, as if on some commission, and I made for my sister's house. She had married a man named Oakshott, and lived in Brixton Road, where she fattened fowls for the market. All the way there every man I met seemed to me to be a policeman or a detective; and, for all that it was a cold night, the sweat was pouring down my face before I came to the Brixton Road. My sister asked me what was the matter, and why I was so pale; but I told her that I had been upset by the jewel robbery at the hotel. Then I went into the back yard and smoked a pipe and wondered what it would be best to do.

"I had a friend once called Maudsley, who went to the bad, and has just been serving his time in Pentonville. One day he had met me, and fell into talk about the
ways of thieves, and how they could get rid of what they stole. I knew that he would be true to me, for I knew one or two things about him; so I made up my mind to go right on to Kilburn, where he lived, and take him into my confidence. He would show me how to turn the stone into money. But how to get to him in safety? I thought of the agonies I had gone through in coming from the hotel. I might at any moment be seized and searched, and there would be the stone in my waistcoat pocket. I was leaning against the wall at the time and looking at the geese which were waddling about round my feet, and suddenly an idea came into my head which showed me how I could beat the best detective that ever lived.

"My sister had told me some weeks before that I might have the pick of her geese for a Christmas present, and I knew that she was always as good as her word. I would take my goose now, and in it I would carry my stone to Kilburn. There was a little shed in the yard, and behind this I drove
one of the birds--a fine big one, white, with a barred tail. I caught it, and prying its bill open, I thrust the stone down its throat as far as my finger could reach. The bird gave a gulp, and I felt the stone pass along its gullet and down into its crop. But the creature flapped and struggled, and out came my sister to know what was the matter. As I turned to speak to her the brute broke loose and fluttered off among the others.

" 'Whatever were you doing with that bird, Jem?' says she.

" 'Well,' said I, 'you said you'd give me one for Christmas, and I was feeling which was the fattest.'

" 'Oh,' says she, 'we've set yours aside for you--Jem's bird, we call it. It's the big white one over yonder. There's twenty-six of them, which makes one for you, and one for us, and two dozen for the market.'

" 'Thank you, Maggie,' says I; 'but if it is all the same to you, I'd rather have that one I was handling just now.'

" 'The other is a good three pound heavier,' said she, 'and we fattened
it expressly for you.'

" 'Never mind. I'll have the other, and I'll take it now,' said I.

" 'Oh, just as you like,' said she, a little huffed. 'Which is it you want, then?'

" 'That white one with the barred tail, right in the middle of the flock.'

" 'Oh, very well. Kill it and take it with you.'

"Well, I did what she said, Mr. Holmes, and I carried the bird all the way to Kilburn. I told my pal what I had done, for he was a man that it was easy to tell a thing like that to. He laughed until he choked, and we got a knife and opened the goose. My heart turned to water, for there was no sign of the stone, and I knew that some terrible mistake had occurred. I left the bird, rushed back to my sister's, and hurried into the back yard. There was not a bird to be seen there.

" 'Where are they all, Maggie?' I cried.

" 'Gone to the dealer's, Jem.'

" 'Which dealer's?'

" 'Breckinridge, of Covent Garden.'

" 'But was there another with a barred tail?' I asked, 'the same as the one I chose?'

"
'Yes, Jem; there were two barred-tailed ones, and I could never tell them apart.'

"Well, then, of course I saw it all, and I ran off as hard as my feet would carry me to this man Breckinridge; but he had sold the lot at once, and not one word would he tell me as to where they had gone. You heard him yourselves to-night. Well, he has always answered me like that. My sister thinks that I am going mad. Sometimes I think that I am myself. And now--and now I am myself a branded thief, without ever having touched the wealth for which I sold my character. God help me! God help me!" He burst into convulsive sobbing, with his face buried in his hands.

There was a long silence, broken only by his heavy breathing and by the measured tapping of Sherlock Holmes' finger-tips upon the edge of the table. Then my friend rose and threw open the door.

"Get out!" said he.

"What, sir! Oh, Heaven bless you!"

"No more words. Get out!"

And no more words were needed. There was a rush, a clatter upon the stairs, the bang of a door, and the crisp rattle of running footfalls from the street.

"After all, Watson," said Holmes, reaching up his hand for his clay pipe, "I am not retained by the police to supply their deficiencies. If Horner were in danger it would be another thing; but this fellow will not appear against him, and the case must collapse. I suppose that I am commuting a felony, but it is just possible that I am saving a soul. This fellow will not go wrong again; he is too terribly frightened. Send him to gaol now, and you make him a gaol-bird for life. Besides, it is the season of forgiveness. Chance has put in our way a most singular and whimsical problem, and its solution is its own reward. If you will have the goodness to touch the bell, Doctor, we will begin another investigation, in which, also a bird will be the chief feature."

VIII. THE ADVENTURE OF THE SPECKLED BAND

On glancing over my notes of the seventy odd cases in which I have during the last eight years studied the methods of my friend Sherlock Holmes, I find many tragic, some comic, a large number merely strange, but none commonplace; for, working as he did rather for the love of his art than for the acquirement of wealth, he refused to associate himself with any investigation which did not tend towards the unusual, and even the fantastic. Of all these varied cases, however, I cannot recall any which presented more singular features than that which was associated with the well-known Surrey family of the Roylotts of Stoke Moran. The events in question occurred in the early days of my association with Holmes, when we were sharing rooms as bachelors in Baker Street. It is possible that I might have placed them upon record before, but a promise of secrecy was made at the time, from which I have only been freed during the last month by the untimely death of the lady to whom the pledge was given. It is perhaps as well that the facts should now come to light, for I have reasons to know that there are widespread rumours as to the death of Dr. Grimesby Roylott which tend to make the matter even more terrible than the truth.

It was early in April in the year '83 that I woke one morning to find Sherlock Holmes standing, fully dressed, by the side of my bed. He was a late riser, as a rule, and as the clock on the mantelpiece showed me that it was only a quarter-past seven, I blinked up at him in some surprise, and perhaps just a little resentment, for I was myself regular in my habits.

"Very sorry to knock you up, Watson," said he, "but it's the common lot this morning. Mrs. Hudson has been knocked up, she retorted upon me, and I on you."

"What is it, then--a fire?"

"No; a client. It seems that a young lady has arrived in a considerable state of excitement, who insists upon seeing me. She is waiting now in the sitting-room. Now, when young ladies wander about the metropolis at this hour of the morning, and knock sleepy people up out of their beds, I presume that it is something very pressing which they have to communicate. Should it prove to be an interesting case, you would, I am sure, wish to follow it from the outset. I thought, at any rate, that I should call you and give you the chance."

"My dear fellow, I would not miss it for anything."

I had no keener pleasure than in following Holmes in his professional investigations, and in admiring the rapid deductions, as swift as intuitions, and yet always founded on a logical basis with which he unravelled the problems which were submitted to him. I rapidly threw on my clothes and was ready in a few minutes to accompany my friend down to the sitting-room. A lady dressed in black and heavily veiled, who had been sitting in the window, rose as we entered.

"Good-morning, madam," said Holmes cheerily. "My name is Sherlock Holmes. This is my intimate friend and associate, Dr. Watson, before whom you can speak as freely as before myself. Ha! I am glad to see that Mrs. Hudson has had the good sense to light
the fire. Pray draw up to it, and I shall order you a cup of hot coffee, for I observe that you are shivering."

"It is not cold which makes me shiver," said the woman in a low voice, changing her seat as requested.

"What, then?"

"It is fear, Mr. Holmes. It is terror." She raised her veil as she spoke, and we could see that she was indeed in a pitiable state of agitation, her face all drawn and grey, with restless frightened eyes, like those of some hunted animal. Her features and figure were those of a woman of thirty, but her hair was shot with premature grey, and her expression was weary and haggard. Sherlock Holmes ran her over with one of his quick, all-comprehensive glances.

"You must not fear," said he soothingly, bending forward and patting her forearm. "We shall soon set matters right, I have no doubt. You have come in by train this morning, I see."

"You know me, then?"

"No, but I observe the second half of a return ticket in the palm of your left glove. You must have
started early, and yet you had a good drive in a dog-cart, along heavy roads, before you reached the station."

The lady gave a violent start and stared in bewilderment at my companion.

"There is no mystery, my dear madam," said he, smiling. "The left arm of your jacket is spattered with mud in no less than seven places. The marks are perfectly fresh. There is no vehicle save a dog-cart which throws up mud in that way, and then only when you sit on the left-hand side of the driver."

"Whatever your reasons may be, you are perfectly correct," said she. "I started from home before six, reached Leatherhead at twenty past, and came in by the first train to Waterloo. Sir, I can stand this strain no longer; I shall go mad if it continues. I have no one to turn to--none, save only one, who cares for me, and he, poor fellow, can be of little aid. I have heard of you, Mr. Holmes; I have heard of you from Mrs. Farintosh, whom you helped in the hour of her sore need. It was from her that I had your
address. Oh, sir, do you not think that you could help me, too, and at least throw a little light through the dense darkness which surrounds me? At present it is out of my power to reward you for your services, but in a month or six weeks I shall be married, with the control of my own income, and then at least you shall not find me ungrateful."

Holmes turned to his desk and, unlocking it, drew out a small case-book, which he consulted.

"Farintosh," said he. "Ah yes, I recall the case; it was concerned with an opal tiara. I think it was before your time, Watson. I can only say, madam, that I shall be happy to devote the same care to your case as I did to that of your

friend. As to reward, my profession is its own reward; but you are at liberty to defray whatever expenses I may be put to, at the time which suits you best. And now I beg that you will lay before us everything that may help us in forming an opinion upon the matter."

"Alas!" replied our visitor, "the very horror of my
situation lies in the fact that my fears are so vague, and my suspicions depend so entirely upon small points, which might seem trivial to another, that even he to whom of all others I have a right to look for help and advice looks upon all that I tell him about it as the fancies of a nervous woman. He does not say so, but I can read it from his soothing answers and averted eyes. But I have heard, Mr. Holmes, that you can see deeply into the manifold wickedness of the human heart. You may advise me how to walk amid the dangers which encompass me."

"I am all attention, madam."

"My name is Helen Stoner, and I am living with my stepfather, who is the last survivor of one of the oldest Saxon families in England, the Roylotts of Stoke Moran, on the western border of Surrey."

Holmes nodded his head. "The name is familiar to me," said he.

"I have very little difficulty in finding what I want," said I, "for the facts are quite recent, and the matter struck me as remarkable. I feared to
refer them to you, however, as I knew that you had an inquiry on hand and that you disliked the intrusion of other matters."

"Oh, you mean the little problem of the Grosvenor Square furniture van. That is quite cleared up now--though, indeed, it was obvious from the first. Pray give me the results of your newspaper selections."

"Here is the first notice which I can find. It is in the personal column of the Morning Post, and dates, as you see, some weeks back: 'A marriage has been arranged,' it says, 'and will, if rumour is correct, very shortly take place, between Lord Robert St. Simon, second son of the Duke of Balmoral, and Miss Hatty Doran, the only daughter of Aloysius Doran. Esq., of San Francisco, Cal., U.S.A.' That is all."

"Terse and to the point," remarked Holmes, stretching his long, thin legs towards the fire.

"There was a paragraph amplifying this in one of the society papers of the same week. Ah, here it is: 'There will soon be a call for protection in the marriage market,
for the present free-trade principle appears to tell heavily against our home product. One by one the management of the noble houses of Great Britain is passing into the hands of our fair cousins from across the Atlantic. An important addition has been made during the last week to the list of the prizes which have been borne away by these charming invaders. Lord St. Simon, who has shown himself for over twenty years proof against the little god's arrows, has now definitely announced his approaching marriage with Miss Hatty Doran, the fascinating daughter of a California millionaire. Miss Doran, whose graceful figure and striking face attracted much attention at the Westbury House festivities, is an only child, and it is currently reported that her dowry will run to considerably over the six figures, with expectancies for the future. As it is an open secret that the Duke of Balmoral has been compelled to sell his pictures within the last few years, and as Lord St. Simon has no property
of his own save the small estate of Birchmoor, it is obvious that the Californian heiress is not the only gainer by an alliance which will enable her to make the easy and common transition from a Republican lady to a British peeress.'

"

"Anything else?" asked Holmes, yawning.

"Oh, yes; plenty. Then there is another note in the Morning Post to say that the marriage would be an absolutely quiet one, that it would be at St. George's, Hanover Square, that only half a dozen intimate friends would be invited, and that the party would return to the furnished house at Lancaster Gate which has been taken by Mr. Aloysius Doran. Two days later--that is, on Wednesday last--there is a curt announcement that the wedding had taken place, and that the honeymoon would be passed at Lord Backwater's place, near Petersfield. Those are all the notices which appeared before the disappearance of the bride."

"Before the what?" asked Holmes with a start.

"The vanishing of the lady."

"When did she vanish,
then?"

"At the wedding breakfast."

"Indeed. This is more interesting than it promised to be; quite dramatic, in fact."

"Yes; it struck me as being a little out of the common."

"They often vanish before the ceremony, and occasionally during the honeymoon; but I cannot call to mind anything quite so prompt as this. Pray let me have the details."

"I warn you that they are very incomplete."

"Perhaps we may make them less so."

"Such as they are, they are set forth in a single article of a morning paper of yesterday, which I will read to you. It is headed, 'Singular Occurrence at a Fashionable Wedding':

" 'The family of Lord Robert St. Simon has been thrown into the greatest consternation by the strange and painful episodes which have taken place in connection with his wedding. The ceremony, as shortly announced in the papers of yesterday, occurred on the previous morning; but it is only now that it has been possible to confirm the strange rumours which have been so persistently
floating about. In spite of the attempts of the friends to hush the matter up, so much public attention has now been drawn to it that no good purpose can be served by affecting to disregard what is a common subject for conversation.

" 'The ceremony, which was performed at St. George's, Hanover Square, was a very quiet one, no one being present save the father of the bride, Mr. Aloysius Doran, the Duchess of Balmoral, Lord Backwater, Lord Eustace and Lady Clara St. Simon (the younger brother and sister of the bridegroom), and Lady Alicia Whittington. The whole party proceeded afterwards to the house of Mr. Aloysius Doran, at Lancaster Gate, where breakfast had been prepared. It appears that some little trouble was caused by a woman, whose name has not been ascertained, who endeavoured to force her way into the house after the bridal party, alleging that she had some claim upon Lord St. Simon. It was only after a painful and prolonged scene that she was ejected by the butler and the footman.

The bride, who had fortunately entered the house before this unpleasant interruption, had sat down to breakfast with the rest, when she complained of a sudden indisposition and retired to her room. Her prolonged absence having caused some comment, her father followed her, but learned from her maid that she had only come up to her chamber for an instant, caught up an ulster and bonnet, and hurried down to the passage. One of the footmen declared that he had seen a lady leave the house thus apparelled, but had refused to credit that it was his mistress, believing her to be with the company. On ascertaining that his daughter had disappeared, Mr. Aloysius Doran, in conjunction with the bridegroom, instantly put themselves in communication with the police, and very energetic inquiries are being made, which will probably result in a speedy clearing up of this very singular business. Up to a late hour last night, however, nothing had transpired as to the whereabouts of the missing lady.

There are rumours of foul play in the matter, and it is said that the police have caused the arrest of the woman who had caused the original disturbance, in the belief that, from jealousy or some other motive, she may have been concerned in the strange disappearance of the bride.' "

"And is that all?"

"Only one little item in another of the morning papers, but it is a suggestive one."

"And it is--"

"That Miss Flora Millar, the lady who had caused the disturbance, has actually been arrested. It appears that she was formerly a danseuse at the Allegro, and that she has known the bridegroom for some years. There are no further particulars, and the whole case is in your hands now--so far as it has been set forth in the public press."

"And an exceedingly interesting case it appears to be. I would not have missed it for worlds. But there is a ring at the bell, Watson, and as the clock makes it a few minutes after four, I have no doubt that this will prove to be our noble client. Do not

dream of going, Watson, for I very much prefer having a witness, if only as a check to my own memory."

"Lord Robert St. Simon," announced our page-boy, throwing open the door. A gentleman entered, with a pleasant, cultured face, high-nosed and pale, with something perhaps of petulance about the mouth, and with the steady, well-opened eye of a man whose pleasant lot it had ever been to command and to be obeyed. His manner was brisk, and yet his general appearance gave an undue impression of age, for he had a slight forward stoop and a little bend of the knees as he walked. His hair, too, as he swept off his very curly-brimmed hat, was grizzled round the edges and thin upon the top. As to his dress, it was careful to the verge of foppishness, with high collar, black frock-coat, white waistcoat, yellow gloves, patent-leather shoes, and light-coloured gaiters. He advanced slowly into the room, turning his head from left to right, and swinging in his right hand the cord which held his golden

eyeglasses.

"Good-day, Lord St. Simon," said Holmes, rising and bowing. "Pray take the basket-chair. This is my friend and colleague, Dr. Watson. Draw up a little to the fire, and we will talk this matter over."

"A most painful matter to me, as you can most readily imagine, Mr. Holmes. I have been cut to the quick. I understand that you have already managed several delicate cases of this sort, sir, though I presume that they were hardly from the same class of society."

"No, I am descending."

"I beg pardon."

"My last client of the sort was a king."

"Oh, really! I had no idea. And which king?"

"The King of Scandinavia."

"What! Had he lost his wife?"

"You can understand," said Holmes suavely, "that I extend to the affairs of my other clients the same secrecy which I promise to you in yours."

"Of course! Very right! very right! I'm sure I beg pardon. As to my own case, I am ready to give you any information which may assist you in forming an opinion."

"Thank you. I have already
learned all that is in the public prints, nothing more. I presume that I may take it as correct--this article, for example, as to the disappearance of the bride."

Lord St. Simon glanced over it. "Yes, it is correct, as far as it goes."

"But it needs a great deal of supplementing before anyone could offer an opinion. I think that I may arrive at my facts most directly by questioning you."

"Pray do so."

"When did you first meet Miss Hatty Doran?"

"In San Francisco, a year ago."

"You were travelling in the States?"

"Yes."

"Did you become engaged then?"

"No."

"But you were on a friendly footing?"

"I was amused by her society, and she could see that I was amused."

"Her father is very rich?"

"He is said to be the richest man on the Pacific slope."

"And how did he make his money?"

"In mining. He had nothing a few years ago. Then he struck gold, invested it, and came up by leaps and bounds."

"Now, what is your own impression as to the young lady's--your wife's character?"

The
nobleman swung his glasses a little faster and stared down into the fire. "You see, Mr. Holmes," said he, "my wife was twenty before her father became a rich man. During that time she ran free in a mining camp and wandered through woods or mountains, so that her education has come from Nature rather than from the schoolmaster. She is what we call in England a tomboy, with a strong nature, wild and free, unfettered by any sort of traditions. She is impetuous--volcanic, I was about to say. She is swift in making up her mind and fearless in carrying out her resolutions. On the other hand, I would not have given her the name which I have the honour to bear"--he gave a little stately cough--"had I not thought her to be at bottom a noble woman. I believe that she is capable of heroic self-sacrifice and that anything dishonourable would be repugnant to her."

"Have you her photograph?"

"I brought this with me." He opened a locket and showed us the full face of a very lovely woman. It was
not a photograph but an ivory miniature, and the artist had brought out the full effect of the lustrous black hair, the large dark eyes, and the exquisite mouth. Holmes gazed long and earnestly at it. Then he closed the locket and handed it back to Lord St. Simon.

"The young lady came to London, then, and you renewed your acquaintance?"

"Yes, her father brought her over for this last London season. I met her several times, became engaged to her, and have now married her."

"She brought, I understand, a considerable dowry?"

"A fair dowry. Not more than is usual in my family."

"And this, of course, remains to you, since the marriage is a fait accompli?"

"I really have made no inquiries on the subject."

"Very naturally not. Did you see Miss Doran on the day before the wedding?"

"Yes."

"Was she in good spirits?"

"Never better. She kept talking of what we should do in our future lives."

"Indeed! That is very interesting. And on the morning of the wedding?"

"She was as bright as
possible--at least until after the ceremony."

"And did you observe any change in her then?"

"Well, to tell the truth, I saw then the first signs that I had ever seen that her temper was just a little sharp. The incident however, was too trivial to relate and can have no possible bearing upon the case."

"Pray let us have it, for all that."

"Oh, it is childish. She dropped her bouquet as we went towards the vestry. She was passing the front pew at the time, and it fell over into the pew. There was a moment's delay, but the gentleman in the pew handed it up to her again, and it did not appear to be the worse for the fall. Yet when I spoke to her of the matter, she answered me abruptly; and in the carriage, on our way home, she seemed absurdly agitated over this trifling cause."

"Indeed! You say that there was a gentleman in the pew. Some of the general public were present, then?"

"Oh, yes. It is impossible to exclude them when the church is open."

"This gentleman was not one of your
wife's friends?"

"No, no; I call him a gentleman by courtesy, but he was quite a common-looking person. I hardly noticed his appearance. But really I think that we are wandering rather far from the point."

"Lady St. Simon, then, returned from the wedding in a less cheerful frame of mind than she had gone to it. What did she do on re-entering her father's house?"

"I saw her in conversation with her maid."

"And who is her maid?"

"Alice is her name. She is an American and came from California with her."

"A confidential servant?"

"A little too much so. It seemed to me that her mistress allowed her to take great liberties. Still, of course, in America they look upon these things in a different way."

"How long did she speak to this Alice?"

"Oh, a few minutes. I had something else to think of."

"You did not overhear what they said?"

"Lady St. Simon said something about 'jumping a claim.' She was accustomed to use slang of the kind. I have no idea what she meant."

"American slang
is very expressive sometimes. And what did your wife do when she finished speaking to her maid?"

"She walked into the breakfast-room."

"On your arm?"

"No, alone. She was very independent in little matters like that. Then, after we had sat down for ten minutes or so, she rose hurriedly, muttered some words of apology, and left the room. She never came back."

"But this maid, Alice, as I understand, deposes that she went to her room, covered her bride's dress with a long ulster, put on a bonnet, and went out."

"Quite so. And she was afterwards seen walking into Hyde Park in company with Flora Millar, a woman who is now in custody, and who had already made a disturbance at Mr. Doran's house that morning."

"Ah, yes. I should like a few particulars as to this young lady, and your relations to her."

Lord St. Simon shrugged his shoulders and raised his eyebrows. "We have been on a friendly footing for some years--I may say on a very friendly footing. She used to be at the Allegro. I have not treated her ungenerously, and she had no just cause of complaint against me, but you know what women are, Mr. Holmes. Flora was a dear little thing, but exceedingly hot-headed and devotedly attached to me. She wrote me dreadful letters when she heard that I was about to be married, and, to tell the truth, the reason why I had the marriage celebrated so quietly was that I feared lest there might be a scandal in the church. She came to Mr. Doran's door just after we returned, and she endeavoured to push her way in, uttering very abusive expressions towards my wife, and even threatening her, but I had foreseen the possibility of something of the sort, and I had two police fellows there in private clothes, who soon pushed her out again. She was quiet when she saw that there was no good in making a row."

"Did your wife hear all this?"

"No, thank goodness, she did not."

"And she was seen walking with this very woman afterwards?"

"Yes. That is what Mr. Lestrade, of Scotland Yard, looks upon as so serious. It is thought that Flora decoyed my wife out and laid some terrible trap for her."

"Well, it is a possible supposition."

"You think so, too?"

"I did not say a probable one. But you do not yourself look upon this as likely?"

"I do not think Flora would hurt a fly."

"Still, jealousy is a strange transformer of characters. Pray what is your own theory as to what took place?"

"Well, really, I came to seek a theory, not to propound one. I have given you all the facts. Since you ask me, however, I may say that it has occurred to me as possible that the excitement of this affair, the consciousness that she had made so immense a social stride, had the effect of causing some little nervous disturbance in my wife."

"In short, that she had become suddenly deranged?"

"Well, really, when I consider that she has turned her back--I will not say upon me, but upon so much that many have aspired to without success--I can hardly explain it in any other fashion."

"Well, certainly
that is also a conceivable hypothesis," said Holmes, smiling. "And now, Lord St. Simon, I think that I have nearly all my data. May I ask whether you were seated at the breakfast-table so that you could see out of the window?"

"We could see the other side of the road and the Park."

"Quite so. Then I do not think that I need to detain you longer. I shall communicate with you."

"Should you be fortunate enough to solve this problem," said our client, rising.

"I have solved it."

"Eh? What was that?"

"I say that I have solved it."

"Where, then, is my wife?"

"That is a detail which I shall speedily supply."

Lord St. Simon shook his head. "I am afraid that it will take wiser heads than yours or mine," he remarked, and bowing in a stately, old-fashioned manner he departed.

"It is very good of Lord St. Simon to honour my head by putting it on a level with his own," said Sherlock Holmes, laughing. "I think that I shall have a whisky and soda and a cigar after all this cross-questioning.
I had formed my conclusions as to the case before our client came into the room."

"My dear Holmes!"

"I have notes of several similar cases, though none, as I remarked before, which were quite as prompt. My whole examination served to turn my conjecture into a certainty. Circumstantial evidence is occasionally very convincing, as when you find a trout in the milk, to quote Thoreau's example."

"But I have heard all that you have heard."

"Without, however, the knowledge of pre-existing cases which serves me so well. There was a parallel instance in Aberdeen some years back, and something on very much the same lines at Munich the year after the Franco-Prussian War. It is one of these cases--but, hullo, here is Lestrade! Good-afternoon, Lestrade! You will find an extra tumbler upon the sideboard, and there are cigars in the box."

The official detective was attired in a pea-jacket and cravat, which gave him a decidedly nautical appearance, and he carried a black canvas bag in

his hand. With a short greeting he seated himself and lit the cigar which had been offered to him.

"What's up, then?" asked Holmes with a twinkle in his eye. "You look dissatisfied."

"And I feel dissatisfied. It is this infernal St. Simon marriage case. I can make neither head nor tail of the business."

"Really! You surprise me."

"Who ever heard of such a mixed affair? Every clue seems to slip through my fingers. I have been at work upon it all day."

"And very wet it seems to have made you," said Holmes laying his hand upon the arm of the pea-jacket.

"Yes, I have been dragging the Serpentine."

"In heaven's name, what for?"

"In search of the body of Lady St. Simon."

Sherlock Holmes leaned back in his chair and laughed heartily.

"Have you dragged the basin of Trafalgar Square fountain?" he asked.

"Why? What do you mean?"

"Because you have just as good a chance of finding this lady in the one as in the other."

Lestrade shot an angry glance at my companion. "I suppose you know all about it," he snarled.

"Well, I have only just heard the facts, but my mind is made up."

"Oh, indeed! Then you think that the Serpentine plays no part in the matter?"

"I think it very unlikely."

"Then perhaps you will kindly explain how it is that we found this in it?" He opened his bag as he spoke, and tumbled onto the floor a wedding-dress of watered silk, a pair of white satin shoes and a bride's wreath and veil, all discoloured and soaked in water. "There," said he, putting a new wedding-ring upon the top of the pile. "There is a little nut for you to crack, Master Holmes."

"Oh, indeed!" said my friend, blowing blue rings into the air. "You dragged them from the Serpentine?"

"No. They were found floating near the margin by a park-keeper. They have been identified as her clothes, and it seemed to me that if the clothes were there the body would not be far off."

"By the same brilliant reasoning, every man's body is to be found in the neighbourhood of his wardrobe. And pray

what did you hope to arrive at through this?"

"At some evidence implicating Flora Millar in the disappearance."

"I am afraid that you will find it difficult."

"Are you, indeed, now?" cried Lestrade with some bitterness. "I am afraid, Holmes, that you are not very practical with your deductions and your inferences. You have made two blunders in as many minutes. This dress does implicate Miss Flora Millar."

"And how?"

"In the dress is a pocket. In the pocket is a card-case. In the card-case is a note. And here is the very note." He slapped it down upon the table in front of him. "Listen to this: 'You will see me when all is ready. Come at once. F. H. M.' Now my theory all along has been that Lady St. Simon was decoyed away by Flora Millar, and that she, with confederates, no doubt, was responsible for her disappearance. Here, signed with her initials, is the very note which was no doubt quietly slipped into her hand at the door and which lured her within their reach."

"Very good,
Lestrade," said Holmes, laughing. "You really are very fine indeed. Let me see it." He took up the paper in a listless way, but his attention instantly became riveted, and he gave a little cry of satisfaction. "This is indeed important," said he.

"Ha! you find it so?"

"Extremely so. I congratulate you warmly."

Lestrade rose in his triumph and bent his head to look. "Why," he shrieked, "you're looking at the wrong side!"

"On the contrary, this is the right side."

"The right side? You're mad! Here is the note written in pencil over here."

"And over here is what appears to be the fragment of a hotel bill, which interests me deeply."

"There's nothing in it. I looked at it before," said Lestrade. " 'Oct. 4th, rooms 8s., breakfast 2s. 6d., cocktail 1s., lunch 2s. 6d., glass sherry, 8d.' I see nothing in that."

"Very likely not. It is most important, all the same. As to the note, it is important also, or at least the initials are, so I congratulate you again."

"I've wasted time enough,"
said Lestrade, rising. "I believe in hard work and not in sitting by the fire spinning fine theories. Good-day, Mr. Holmes, and we shall see which gets to the bottom of the matter first." He gathered up the garments, thrust them into the bag, and made for the door.

"Just one hint to you, Lestrade," drawled Holmes before his rival vanished; "I will tell you the true solution of the matter. Lady St. Simon is a myth. There is not, and there never has been, any such person."

Lestrade looked sadly at my companion. Then he turned to me, tapped his forehead three times, shook his head solemnly, and hurried away.

He had hardly shut the door behind him when Holmes rose to put on his overcoat. "There is something in what the fellow says about outdoor work," he remarked, "so I think, Watson, that I must leave you to your papers for a little."

It was after five o'clock when Sherlock Holmes left me, but I had no time to be lonely, for within an hour there arrived a confectioner's man with
a very large flat box. This he unpacked with the help of a youth whom he had brought with him, and presently, to my very great astonishment, a quite epicurean little cold supper began to be laid out upon our humble lodging-house mahogany. There were a couple of brace of cold woodcock, a pheasant, a pate de foie gras pie with a group of ancient and cobwebby bottles. Having laid out all these luxuries, my two visitors vanished away, like the genii of the Arabian Nights, with no explanation save that the things had been paid for and were ordered to this address.

Just before nine o'clock Sherlock Holmes stepped briskly into the room. His features were gravely set, but there was a light in his eye which made me think that he had not been disappointed in his conclusions.

"They have laid the supper, then," he said, rubbing his hands.

"You seem to expect company. They have laid for five."

"Yes, I fancy we may have some company dropping in," said he. "I am surprised that Lord St. Simon has
not already arrived. Ha! I fancy that I hear his step now upon the stairs."

It was indeed our visitor of the afternoon who came bustling in, dangling his glasses more vigorously than ever, and with a very perturbed expression upon his aristocratic features.

To conserve the patient's strength by preventing or diminishing the severity of the spasms, he should be placed in a quiet room, and every form of disturbance avoided. Sedatives, such as bromides, paraldehyde, or opium, must be given in large doses. Chloral is perhaps the best, and the patient should rarely have less than 150 grains in twenty-four hours. When he is unable to swallow, it should be given by the rectum. The administration of chloroform is of value in conserving the strength of the patient, by abolishing the spasms, and enabling the attendants to administer nourishment or drugs either through a stomach tube or by the rectum. Extreme elevation of temperature is met by tepid sponging. It is necessary to use the catheter
if retention of urine occurs.

HYDROPHOBIA

Hydrophobia is an acute infective disease following on the bite of a rabid animal. It most commonly follows the bite or lick of a rabid dog

or cat. The virus appears to be communicated through the saliva of the animal, and to show a marked affinity for nerve tissues; and the disease is most likely to develop when the patient is infected on the face or other uncovered part, or in a part richly endowed with nerves.

A dog which has bitten a person should on no account be killed until its condition has been proved one way or the other. Should rabies develop and its destruction become necessary, the head and spinal cord should be retained and forwarded, packed in ice, to a competent observer. Much anxiety to the person bitten and to his friends would be avoided if these rules were observed, because in many cases it will be shown that the animal did not after all suffer from rabies, and that the patient consequently runs no risk. If, on the other hand, rabies is proved to be present, the patient should be submitted to the Pasteur treatment.

Clinical Features.--There is almost always a history of the patient having been bitten or licked by an animal supposed to suffer from rabies. The incubation period averages about forty days, but varies from a fortnight to seven or eight months, and is shorter in young than in old persons. The original wound has long since healed, and beyond a slight itchiness or pain shooting along the nerves of the part, shows no sign of disturbance. A few days of general malaise, with chills and giddiness precede the onset of the acute manifestations, which affect chiefly the muscles of deglutition and respiration. One of the earliest signs is that the patient has periodically a sudden catch in his breathing "resembling what often occurs when a person goes into a cold bath." This is due to spasm of the diaphragm, and is frequently accompanied by a loud-sounding hiccough, likened by the laity to the barking of a dog. Difficulty in swallowing fluids may be the first symptom.

The spasms rapidly spread to all the muscles of deglutition and respiration, so that the patient not only has the greatest difficulty in swallowing, but has a constant sense of impending suffocation. To add to his distress, a copious secretion of viscid saliva fills his mouth. Any voluntary effort, as well as all forms of external stimuli, only serve to aggravate the spasms which are always induced by the attempt to swallow fluid, or even by the sound of running water.

The temperature is raised; the pulse is small, rapid, and intermittent; and the urine may contain sugar and albumen.

The mind may remain clear to the end, or the patient may have delusions, supposing himself to be surrounded by terrifying forms. There is always extreme mental agitation and despair, and the sufferer is in constant fear of his impending fate. Happily the inevitable issue is not long

delayed, death usually occurring in from two to four days from the onset. The symptoms of the disease are so characteristic that there is no difficulty in diagnosis. The only condition with which it is liable to be confused is the variety of cephalic tetanus in which the muscles of deglutition are specially involved--the so-called tetanus hydrophobicus.

Prophylaxis.--The bite of an animal suspected of being rabid should be cauterised at once by means of the actual or Paquelin cautery, or by a strong chemical escharotic such as pure carbolic acid, after which antiseptic dressings are applied.

It is, however, to Pasteur's _preventive inoculation_ that we must look for our best hope of averting the onset of symptoms. "It may now be taken as established that a grave responsibility rests on those concerned if a person bitten by a mad animal is not subjected to the Pasteur treatment" (Muir and Ritchie).

This method is based on the fact that the long incubation period of the disease admits of the patient being inoculated with a modified virus producing a mild attack, which protects him from the natural disease.

Treatment.--When the symptoms have once developed they can only be palliated. The patient must be kept absolutely quiet and free from all sources of irritation. The spasms may be diminished by means of chloral and bromides, or by chloroform inhalation.

ANTHRAX

Anthrax is a comparatively rare disease, communicable to man from certain of the lower animals, such as sheep, oxen, horses, deer, and other herbivora. In animals it is characterised by symptoms of acute general poisoning, and, from the fact that it produces a marked enlargement of the spleen, is known in veterinary surgery as "splenic fever."

The _bacillus anthracis_ (Fig. 27), the largest of the known pathogenic bacteria, occurs in groups or in chains made up of numerous bacilli, each bacillus measuring from 6 to 8 u in length. The organisms are found in enormous numbers throughout the bodies of animals that have died of anthrax, and are readily recognised and cultivated. Sporulation only takes place outside the body, probably because free oxygen is necessary to the process. In the spore-free condition, the organisms are readily destroyed by ordinary germicides, and by the gastric juice. The spores,

on the other hand, have a high degree of resistance. Not only do they remain viable in the dry state for long periods, even up to a year, but they survive boiling for five minutes, and must be subjected to dry heat at 140 o C. for several hours before they are destroyed.

[Illustration: FIG. 27.--Bacillus of Anthrax in section of skin, from a case of malignant pustule; shows vesicle containing bacilli. x 400 diam. Gram's stain.]

Clinical Varieties of Anthrax.--In man, anthrax may manifest itself in one of three clinical forms.

It may be transmitted by means of spores or bacilli directly from a diseased animal to those who, by their occupation or otherwise, are brought into contact with it--for example, shepherds, butchers, veterinary surgeons, or hide-porters. Infection may occur on the face by the use of a shaving-brush contaminated by spores. The path of infection is usually through an abrasion of the skin, and the primary manifestations are local, constituting what is known as _the malignant pustule_.

In other cases the disease is contracted through the inhalation of the dried spores into the respiratory passages. This occurs oftenest in those who work amongst wool, fur, and rags, and a form of acute pneumonia of great virulence ensues. This affection is known as _wool-sorter's disease_, and is almost universally fatal.

There is reason to believe that infection may also take place by means of spores ingested into the alimentary canal in meat or milk derived from diseased animals, or in infected water.

become associated with branches from the musculo-cutaneous is followed by a loss of sensibility on the radial side of the hand and thumb. Wounds on the dorsal surface of the wrist and forearm are often followed by loss of sensibility over a larger area, because the musculo-cutaneous nerve is divided as well, and some of the fibres of the lower lateral cutaneous branch of the radial.

[Illustration: FIG. 91.--To illustrate the Loss of Sensation produced by Division of the Median Nerve. The area of complete cutaneous insensibility is shaded black. The parts insensitive to light touch and to intermediate degrees of temperature are enclosed within the dotted line.

(After Head and Sherren.)]

#The Median Nerve# is most frequently injured in wounds made by broken glass in the region of the wrist. It may also be injured in fractures of the lower end of the humerus, in fractures of both bones of the forearm, and as a result of pressure by splints. After _division at the elbow_, there is impairment of mobility which affects the thumb, and to a less extent the index finger: the terminal phalanx of the thumb cannot be flexed owing to the paralysis of the flexor pollicis longus, and the index
can only be flexed at its metacarpo-phalangeal joint by the interosseous muscles attached to it. Pronation of the forearm is feeble, and is completed by the weight of the hand. After _division at the wrist_, the abductor-opponens group of muscles and the two lateral lumbricals only are affected; the abduction of the thumb can be feebly imitated by the short extensor and the long abductor (ext. ossis metacarpi pollicis), while opposition may be simulated by contraction of the long flexor and the short abductor of the thumb; the paralysis of the two medial lumbricals produces no symptoms that can be recognised. It is important to remember that when the median nerve is divided at the wrist, deep touch can be appreciated over the whole of the area supplied by the nerve; the injury, therefore, is liable to be over looked. If, however, the tendons are divided as well as the nerve, there is insensibility to deep touch. The areas of epicritic and of protopathic insensibility are illustrated
in Fig. 91. The division of
the nerve at the elbow, or even at the axilla, does not increase the extent of the loss of epicritic or protopathic sensibility, but usually affects deep sensibility.

[Illustration: FIG. 92.--To illustrate Loss of Sensation produced by complete Division of Ulnar Nerve. Loss of all forms of cutaneous sensibility is represented by the shaded area. The parts insensitive to light touch and to intermediate degrees of heat and cold are enclosed within the dotted line.

(Head and Sherren.)]

#The Ulnar Nerve.#--The most common injury of this nerve is its division in transverse accidental wounds just above the wrist. In the arm it may be contused, along with the radial, in crutch paralysis; in the region of the elbow it may be injured in fractures or dislocations, or it may be accidentally divided in the operation for excising the elbow-joint.

same class as himself and possessed the same breeding and traditions, Bolkonski would soon have discovered his weak, human, unheroic

sides; but as it was, Speranski's strange and logical turn of mind inspired him with respect all the more because he did not quite understand him. Moreover, Speranski, either because he appreciated the other's capacity or because he considered it necessary to win him to his side, showed off his dispassionate calm reasonableness before Prince Andrew and flattered him with that subtle flattery which goes hand in hand with self-assurance and consists in a tacit assumption that one's companion is the only man besides oneself capable of understanding the folly of the rest of mankind and the reasonableness and profundity of one's own ideas.

During their long conversation on Wednesday evening, Speranski more than once remarked: "We regard everything that is above the common level of rooted custom..." or, with a smile: "But we want the wolves to be fed and the sheep to be safe..." or: "They cannot understand this..." and all in a way that seemed to say: "We, you and I, understand what they are and who we are."

This first long conversation with Speranski only strengthened in Prince Andrew the feeling he had experienced toward him at their first meeting. He saw in him a remarkable, clear-thinking man of vast intellect who by his energy and persistence had attained power, which he was using solely for the welfare of Russia. In Prince Andrew's eyes Speranski was the man he would himself have wished to be--one who explained all the facts of life reasonably, considered important only what was rational, and was capable of applying the standard of reason to everything. Everything seemed so simple and clear in Speranski's exposition that Prince Andrew involuntarily agreed with him about everything. If he replied and argued, it was only because he wished to maintain his independence and not submit to Speranski's opinions entirely. Everything was right and everything was as it should be: only one thing disconcerted Prince Andrew. This was Speranski's cold, mirrorlike look, which did not allow one to penetrate to his soul, and his delicate white hands, which Prince Andrew involuntarily watched as one does watch the hands of those who possess power. This mirrorlike gaze and those delicate hands irritated Prince Andrew, he knew not why. He was unpleasantly struck, too, by the excessive contempt for others that he observed in Speranski, and by the diversity of lines of argument he used to support his opinions. He made use of every kind of mental device, except analogy, and passed too boldly, it seemed to Prince Andrew, from one to another. Now he would take up the position of a practical man and condemn dreamers; now that of a satirist, and laugh ironically at his opponents; now grow severely logical, or suddenly rise to the realm of metaphysics. (This last resource was one he very frequently employed.) He would transfer a question to

metaphysical heights, pass on to definitions of space, time, and thought, and, having deduced the refutation he needed, would again descend to the level of the original discussion.

In general the trait of Speranski's mentality which struck Prince Andrew most was his absolute and unshakable belief in the power and authority of reason. It was evident that the thought could never occur to him which to Prince Andrew seemed so natural, namely, that it is after all impossible to express all one thinks; and that he had never felt the doubt, "Is not all I think and believe nonsense?" And it was just this peculiarity of Speranski's mind that particularly attracted Prince Andrew.

During the first period of their acquaintance Bolkonski felt a passionate admiration for him similar to that which he had once felt for Bonaparte. The fact that Speranski was the son of a village priest, and that stupid people might meanly despise him on account of his humble origin (as in fact many did), caused Prince Andrew to cherish his sentiment for him the more, and unconsciously to strengthen it.

On that first evening Bolkonski spent with him, having mentioned the Commission for the Revision of the Code of Laws, Speranski told him sarcastically that the Commission had existed for a hundred and fifty years, had cost millions, and had done nothing except that Rosenkampf had stuck labels on the corresponding paragraphs of the different codes.

"And that is all the state has for the millions it has spent," said he. "We want to give the Senate new juridical powers, but we have no laws. That is why it is a sin for men like you, Prince, not to serve in these times!"

Prince Andrew said that for that work an education in jurisprudence was needed which he did not possess.

"But nobody possesses it, so what would you have? It is a vicious circle from which we must break a way out."

A week later Prince Andrew was a member of the Committee on Army Regulations and--what he had not at all expected--was chairman of a section of the committee for the revision of the laws. At Speranski's request he took the first part of the Civil Code that was being drawn up and, with the aid of the Code Napoleon and the Institutes of Justinian, he worked at formulating the section on

CHAPTER VII

Nearly two years before this, in 1808, Pierre on returning to Petersburg after visiting his estates had involuntarily found himself in a leading position among the Petersburg Freemasons. He arranged dining and funeral lodge meetings, enrolled new members, and busied himself uniting various lodges and acquiring authentic charters. He gave money for the erection of temples and supplemented as far as he could the collection of alms, in regard to which the majority of members were stingy and irregular. He supported almost singlehanded a poorhouse the order had founded in Petersburg.

His life meanwhile continued as before, with the same infatuations and dissipations. He liked to dine and drink well, and though he considered it immoral and humiliating could not resist the temptations of the bachelor circles in
which he moved.

Amid the turmoil of his activities and distractions, however, Pierre at the end of a year began to feel that the more firmly he tried to rest upon it, the more Masonic ground on which he stood gave way under him. At the same time he felt that the deeper the ground sank under him the closer bound he involuntarily became to the order. When he had joined the Freemasons he had experienced the feeling of one who confidently steps onto the smooth surface of a bog. When he put his foot down it sank in. To make quite sure of the firmness the ground, he put his other foot down and sank deeper still, became stuck in it, and involuntarily waded knee-deep in the bog.

Joseph Alexeevich was not in Petersburg--he had of late stood aside from the affairs of the Petersburg lodges, and lived almost entirely in Moscow. All the members of the lodges were men Pierre knew in ordinary life, and it was difficult for him to regard them merely as Brothers in Freemasonry and not as Prince B.
or Ivan Vasilevich D.,
whom he knew in society mostly as weak and insignificant men. Under the Masonic aprons and insignia he saw the uniforms and decorations at which they aimed in ordinary life. Often after collecting alms, and reckoning up twenty to thirty rubles received for the most part in promises from a dozen members, of whom half were as well able to pay as himself, Pierre remembered the Masonic vow in which each Brother

promised to devote all his belongings to his neighbor, and doubts on which he tried not to dwell arose in his soul.

He divided the Brothers he knew into four categories. In the first he put those who did not take an active part in the affairs of the lodges or in human affairs, but were exclusively occupied with the mystical science of the order: with questions of the threefold designation of God, the three primordial elements--sulphur, mercury, and salt--or the meaning of the square and all the various figures of the temple of Solomon. Pierre respected this class of Brothers to which the elder ones chiefly belonged, including, Pierre thought, Joseph Alexeevich himself, but he did not share their interests. His heart was not in the mystical aspect of Freemasonry.

In the second category Pierre reckoned himself and others like him, seeking and vacillating, who had not yet found in Freemasonry a straight and comprehensible path, but hoped to do so.

In the third category he included those Brothers (the majority) who saw nothing in Freemasonry but the external forms and ceremonies, and prized the strict performance of these forms without troubling about their purport or significance. Such were Willarski and even the Grand Master of the principal lodge.

Finally, to the fourth category also a great many Brothers belonged, particularly those who had lately joined. These according to Pierre's observations were men who had no belief in anything, nor desire for anything, but joined the Freemasons merely to associate with the wealthy young Brothers who were influential through their connections or rank, and of whom there were very many in the lodge.

Pierre began to feel dissatisfied with what he was doing. Freemasonry, at any rate as he saw it here, sometimes seemed to him based merely on externals. He did not think of doubting Freemasonry itself, but suspected that Russian Masonry had taken a wrong path and deviated from its original principles. And so toward the end of the year he went abroad to be initiated into the higher secrets of the order.

In the summer of 1809 Pierre returned to Petersburg. Our Freemasons knew from correspondence with those abroad that Bezukhov had obtained the confidence of many highly placed persons, had been initiated into many mysteries, had been raised to a higher grade, and was bringing back with him much that might conduce to the advantage of the Masonic cause in Russia. The Petersburg Freemasons all came to see him, tried to ingratiate themselves with him, and it

seemed to them all that he was
preparing something for them and
concealing it.

A solemn meeting of the lodge of the second degree was convened, at which Pierre promised to communicate to the Petersburg Brothers what he had to deliver to them from the highest leaders of their order. The meeting was a full one. After the usual ceremonies Pierre rose and began his address.

"Dear Brothers," he began, blushing and stammering, with a written speech in his hand, "it is not sufficient to observe our mysteries in the seclusion of our lodge--we must act--act! We are drowsing, but we must act." Pierre raised his notebook and began to read.

"For the dissemination of pure truth and to secure the triumph of virtue," he read, "we must cleanse men from prejudice, diffuse principles in harmony with the spirit of the times, undertake the education of the young, unite ourselves in indissoluble bonds with the wisest men, boldly yet prudently overcome superstitions, infidelity, and folly, and form of those devoted to us a body linked
together by
unity of purpose and possessed of authority and power.

"To attain this end we must secure a preponderance of virtue over vice and must endeavor to secure that the honest man may, even in this world, receive a lasting reward for his virtue. But in these great endeavors we are gravely hampered by the political institutions of today. What is to be done in these circumstances? To favor revolutions, overthrow everything, repel force by force?... No! We are very far from that. Every violent reform deserves censure, for it quite fails to remedy evil while men remain what they are, and also because wisdom needs no violence.

"The whole plan of our order should be based on the idea of preparing men of firmness and virtue bound together by unity of conviction--aiming at the punishment of vice and folly, and patronizing talent and virtue: raising worthy men from the dust and attaching them to our Brotherhood. Only then will our order have the power unobtrusively to bind the hands of
the protectors of disorder
and to control them without their being aware of it. In a word, we must found a form of government holding universal sway, which should be diffused over the whole world without destroying the bonds of citizenship, and beside which all other governments can continue in their customary course and do everything except what impedes the great aim of our order, which is to obtain for virtue the victory over vice. This aim was that of Christianity itself. It taught men to be wise and

good and for their own benefit to follow the example and instruction of the best and wisest men.

"At that time, when everything was plunged in darkness, preaching alone was of course sufficient. The novelty of Truth endowed her with special strength, but now we need much more powerful methods. It is now necessary that man, governed by his senses, should find in virtue a charm palpable to those senses. It is impossible to eradicate the passions; but we must strive to direct them to a noble aim, and it is therefore necessary that everyone should be able to satisfy his passions within the limits of virtue. Our order should provide means to that end.

"As soon as we have a certain number of worthy men in every state, each of them again training two others and all being closely united, everything will be possible for our order, which has already in secret accomplished much for the welfare of mankind."

This speech not only made a strong impression, but created excitement in the lodge. The majority of the Brothers, seeing in it dangerous designs of Illuminism,* met it with a coldness that surprised Pierre. The Grand Master began answering him, and Pierre began developing his views with more and more warmth. It was long since there had been so stormy a meeting. Parties were formed, some accusing Pierre of Illuminism, others supporting him. At that meeting he was struck for the first time by the endless variety of men's minds, which prevents a truth from ever presenting itself identically to two persons. Even those members who seemed to be on his side understood him in their own way with limitations and alterations he could not agree to, as what he always wanted most was to convey his thought to others just as he himself understood it.

*The Illuminati sought to substitute republican for monarchical institutions.

At the end of the meeting the Grand Master with irony and ill-will reproved Bezukhov for his vehemence and said it was not love of virtue alone, but also a love of strife that had moved him in the dispute. Pierre did not answer him and asked briefly whether his proposal would be accepted. He was told that it would not, and without waiting for the usual formalities he left the lodge and went home.

CHAPTER VIII

Again Pierre was overtaken by the depression he so dreaded. For three days after the delivery of his speech at the lodge he lay on a sofa at home receiving no one and going nowhere.

It was just then that he received a letter from his wife, who implored him to see her, telling him how grieved she was about him and how she wished to devote her whole life to him.

At the end of the letter she informed him that in a few days she would return to Petersburg from abroad.

Following this letter one of the Masonic Brothers whom Pierre respected less than the others forced his way in to see him and, turning the conversation upon Pierre's matrimonial affairs, by way of fraternal advice expressed the opinion that his severity to his wife was wrong and that he was neglecting one of the first rules of Freemasonry by not forgiving the penitent.

At the same time his mother-in-law, Prince Vasili's wife, sent to him imploring him to come if only for a few minutes to discuss a most important matter. Pierre saw that there was a conspiracy against him and that they wanted to reunite him with his wife, and in the mood he then was, this was not even unpleasant to him. Nothing mattered to him. Nothing in life seemed to him of much importance, and under the influence of the depression that possessed him he valued neither his liberty nor his resolution to punish his wife.

"No one is right and no one is to blame; so she too is not to blame," he thought.

If he did not at once give his consent to a reunion with his wife, it was only because in his state of depression he did not feel able to take any step. Had his wife come to him, he would not have turned her away. Compared to what preoccupied him, was it not a matter of indifference whether he lived with his wife or not?

Without replying either to his wife or his mother-in-law, Pierre late one night prepared for a journey and started for Moscow to see Joseph Alexeevich. This is what he noted in his diary:

Moscow, 17th November

I have just returned from my benefactor, and hasten to write down what I have experienced. Joseph Alexeevich is living poorly and has for three years been suffering from a painful disease of the bladder. No one has ever heard him utter a groan or a word of complaint. From morning till late at night, except when he eats his very plain food, he is working at science. He received me graciously and made me sit down on the bed on which he lay. I made the sign of the Knights of the East and of Jerusalem, and he responded in the same manner, asking me with a mild smile what I had learned and gained in the Prussian and Scottish lodges. I told him everything as best I could, and told him what I had proposed to our Petersburg lodge, of the bad reception I had encountered, and of my rupture with the Brothers. Joseph Alexeevich, having remained silent and thoughtful for a good while, told me his view of the matter, which at once lit up for me my whole past and the future path I should follow. He surprised me by asking whether I remembered the threefold aim of the order: (1) The preservation and study of the mystery. (2) The purification and reformation of oneself for its reception, and (3) The improvement of the human race by striving for such purification. Which is the principal aim of these three? Certainly self-reformation and self-purification. Only to this aim can we always strive independently of circumstances. But at the same time just this aim demands the greatest efforts of us; and so, led astray by pride, losing sight of this aim, we occupy ourselves either with the mystery which in our impurity we are unworthy to receive, or seek the reformation of the human race while ourselves setting an example of baseness and profligacy. Illuminism is not a pure doctrine, just because it is attracted by social activity and puffed up by pride. On this ground Joseph Alexeevich condemned my speech and my whole activity, and in the depth of my soul I agreed with him. Talking of my family affairs he said to me, "the chief duty of a true Mason, as I have told you, lies in perfecting himself. We often think that by removing all the difficulties of our life we shall more quickly reach our aim, but on the contrary, my dear sir, it is only in the midst of worldly cares that we can attain our three chief aims: (1) Self-knowledge--for man can only know himself by comparison, (2) Self-perfecting, which can only be attained by conflict, and (3) The attainment of the chief virtue--love of death. Only the vicissitudes of life can show us its vanity and develop our innate love of death or of rebirth to a new life." These words are all the more remarkable because, in spite of his great physical sufferings, Joseph Alexeevich is never weary of life though he loves death, for which--in spite of the purity and

loftiness of his inner man--he does not yet feel himself sufficiently prepared. My benefactor then explained to me fully the meaning of the Great Square of creation and pointed out to me that the numbers three and seven are the basis of everything. He advised me not to avoid intercourse with the Petersburg Brothers, but to take up only second-grade posts in the lodge, to try, while diverting the Brothers from pride, to turn them toward the true path self-knowledge and self-perfecting. Besides this he advised me for myself personally above all to keep a watch over myself, and to that end he gave me a notebook, the one I am now writing in and in which I will in future note down all my actions.

Petersburg, 23rd November

I am again living with my wife. My mother-in-law came to me in tears and said that Helene was here and that she implored me to hear her; that she was innocent and unhappy at my desertion, and much more. I knew that if I once let myself see her I should not have strength to go on refusing what she wanted. In my perplexity I did not know whose aid and advice to seek. Had my benefactor been here he would have told me what to do. I went to my room and reread Joseph Alexeevich's letters and recalled my conversations with him, and deduced from it all that I ought not to refuse a suppliant, and ought to reach a helping hand to everyone--especially to one so closely bound to me--and that I must bear my cross. But if I forgive her for the sake of doing right, then let union with her have only a spiritual aim. That is what I decided, and what I wrote to Joseph Alexeevich. I told my wife that I begged her to forget the past, to forgive me whatever wrong I may have done her, and that I had nothing to forgive. It gave me joy to tell her this. She need not know how hard it was for me to see her again. I have settled on the upper floor of this big house and am experiencing a happy feeling of regeneration.

CHAPTER IX

At that time, as always happens, the highest society that met at court and at the grand balls was divided into several circles, each with its own particular tone. The largest of these was the French circle of the Napoleonic alliance, the circle of Count Rumyantsev

and Caulaincourt. In this group Helene, as soon as she had settled in Petersburg with her husband, took a very prominent place. She was visited by the members of the French embassy and by many belonging to that circle and noted for their intellect and polished manners.

Helene had been at Erfurt during the famous meeting of the Emperors and had brought from there these connections with the Napoleonic notabilities. At Erfurt her success had been brilliant. Napoleon himself had noticed her in the theater and said of her: "C'est un superbe animal."* Her success as a beautiful and elegant woman did not surprise Pierre, for she had become even handsomer than before. What did surprise him was that during these last two years his wife had succeeded in gaining the reputation "d' une femme charmante, aussi spirituelle que belle."*[2] The distinguished Prince de Ligne wrote her eight-page letters. Bilibin saved up his epigrams to produce them in Countess Bezukhova's presence. To be received in the Countess Bezukhova's salon was regarded as a diploma of intellect. Young men read books before attending Helene's evenings, to have something to say in her salon, and secretaries of the embassy, and even ambassadors, confided diplomatic secrets to her, so that in a way Helene was a power. Pierre, who knew she was very stupid, sometimes attended, with a strange feeling of perplexity and fear, her evenings and dinner parties, where politics, poetry, and philosophy were discussed. At these parties his feelings were like those of a conjuror who always expects his trick to be found out at any moment. But whether because stupidity was just what was needed to run such a salon, or because those who were deceived found pleasure in the deception, at any rate it remained unexposed and Helene Bezukhova's reputation as a lovely and clever woman became so firmly established that she could say the emptiest and stupidest things and everybody would go into raptures over every word of hers and look for a profound meaning in it of which she herself had no conception.

*"That's a superb animal."

*[2] "Of a charming woman, as witty as she is lovely."

Pierre was just the husband needed for a brilliant society woman. He was that absent-minded crank, a grand seigneur husband who was in no one's way, and far from spoiling the high tone and general impression of the drawing room, he served, by the contrast he presented to her, as an advantageous background to his elegant and tactful wife. Pierre during the last two years, as a result of his

continual absorption in abstract interests and his sincere contempt for all else, had acquired in his wife's circle, which did not interest him, that air of unconcern, indifference, and benevolence toward all, which cannot be acquired artificially and therefore inspires involuntary respect. He entered his wife's drawing room as one enters a theater, was acquainted with everybody, equally pleased to see everyone, and equally indifferent to them all. Sometimes he joined in a conversation which interested him and, regardless of whether any "gentlemen of the embassy" were present or not, lispingly expressed his views, which were sometimes not at all in accord with the accepted tone of the moment. But the general opinion concerning the queer husband of "the most distinguished woman in Petersburg" was so well established that no one took his freaks seriously.

Among the many young men who frequented her house every day, Boris Drubetskoy, who had already achieved great success in the service, was the most intimate friend of the Bezukhov household since Helene's return from Erfurt. Helene spoke of him as "mon page" and treated him like a child. Her smile for him was the same as for everybody, but sometimes that smile made Pierre uncomfortable. Toward him Boris behaved with a particularly dignified and sad deference. This shade of deference also disturbed Pierre. He had suffered so painfully three years before from the mortification to which his wife had subjected him that he now protected himself from the danger of its repetition, first by not being a husband to his wife, and secondly by not allowing himself to suspect.

"No, now that she has become a bluestocking she has finally renounced her former infatuations," he told himself. "There has never been an instance of a bluestocking being carried away by affairs of the heart"--a statement which, though gathered from an unknown source, he believed implicitly. Yet strange to say Boris' presence in his wife's drawing room (and he was almost always there) had a physical effect upon Pierre; it constricted his limbs and destroyed the unconsciousness and freedom of his movements.

"What a strange antipathy," thought Pierre, "yet I used to like him very much."

In the eyes of the world Pierre was a great gentleman, the rather blind and absurd husband of a distinguished wife, a clever crank who did nothing but harmed nobody and was a first-rate, good-natured fellow. But a complex and difficult process of internal development was taking place all this time in Pierre's soul, revealing much to him and causing him many spiritual doubts and joys.

CHAPTER X

Pierre went on with his diary, and this is what he wrote in it during that time:

24th November

Got up at eight, read the Scriptures, then went to my duties. [By Joseph Alexeevich's advice Pierre had entered the service of the state and served on one of the committees.] Returned home for dinner and dined alone--the countess had many visitors I do not like. I ate and drank moderately and after dinner copied out some passages for the Brothers. In the evening I went down to the countess and told a funny story about B., and only remembered that I ought not to have done so when everybody laughed loudly at it.

I am going to bed with a happy and tranquil mind. Great God, help me to walk in Thy paths, (1) to conquer anger by calmness and deliberation, (2) to vanquish lust by self-restraint and repulsion, (3) to withdraw from worldliness, but not avoid (a) the service of the state, (b) family duties, (c) relations with my friends, and the management of my affairs.

27th November

I got up late. On waking I lay long in bed yielding to sloth. O God, help and strengthen me that I may walk in Thy ways! Read the Scriptures, but without proper feeling. Brother Urusov came and we talked about worldly vanities. He told me of the Emperor's new projects. I began to criticize them, but remembered my rules and my benefactor's words--that a true Freemason should be a zealous worker for the state when his aid is required and a quiet onlooker when not called on to assist. My tongue is my enemy. Brothers G. V. and O. visited me and we had a preliminary talk about the reception of a new Brother. They laid on me the duty of Rhetor. I feel myself weak and unworthy. Then our talk turned to the interpretation of the seven pillars and steps of the Temple, the seven sciences, the seven virtues, the seven vices, and the seven gifts of the Holy Spirit.

Brother O. was very eloquent. In the evening the admission took place. The new decoration of the Premises contributed much to the magnificence of the spectacle. It was Boris Drubetskoy who was admitted. I nominated him and was the Rhetor. A strange feeling agitated me all the time I was alone with him in the dark chamber. I caught myself harboring a feeling of hatred toward him which I vainly tried to overcome. That is why I should really like to save him from evil and lead him into the path of truth, but evil thoughts of him did not leave me. It seemed to me that his object in entering the Brotherhood was merely to be intimate and in favor with members of our lodge. Apart from the fact that he had asked me several times whether N. and S. were members of our lodge (a question to which I could not reply) and that according to my observation he is incapable of feeling respect for our holy order and is too preoccupied and satisfied with the outer man to desire spiritual improvement, I had no cause to doubt him, but he seemed to me insincere, and all the time I stood alone with him in the dark temple it seemed to me that he was smiling contemptuously at my words, and I wished really to stab his bare breast with the sword I held to it. I could not be eloquent, nor could I frankly mention my doubts to the Brothers and to the Grand Master. Great Architect of Nature, help me to find the true path out of the labyrinth of lies!

After this, three pages were left blank in the diary, and then the following was written:

I have had a long and instructive talk alone with Brother V., who advised me to hold fast by brother A. Though I am unworthy, much was revealed to me. Adonai is the name of the creator of the world. Elohim is the name of the ruler of all. The third name is the name unutterable which means the All. Talks with Brother V. strengthen, refresh, and support me in the path of virtue. In his presence doubt has no place. The distinction between the poor teachings of mundane science and our sacred all-embracing teaching is clear to me. Human sciences dissect everything to comprehend it, and kill everything to examine it. In the holy science of our order all is one, all is known in its entirety and life. The Trinity--the three elements of matter--are sulphur, mercury, and salt. Sulphur is of an oily and fiery nature; in combination with salt by its fiery nature it arouses a desire in the latter by means of which it attracts mercury, seizes it, holds it, and in combination produces other bodies. Mercury is a fluid, volatile, spiritual essence. Christ, the Holy Spirit, Him!...

3rd December

Awoke late, read the Scriptures but was apathetic. Afterwards went and paced up and down the large hall. I wished to meditate, but instead my imagination pictured an occurrence of four years ago, when Dolokhov, meeting me in Moscow after our duel, said he hoped I was enjoying perfect peace of mind in spite of my wife's absence. At the time I gave him no answer. Now I recalled every detail of that meeting and in my mind gave him the most malevolent and bitter replies. I recollected myself and drove away that thought only when I found myself glowing with anger, but I did not sufficiently repent. Afterwards Boris Drubetskoy came and began relating various adventures. His coming vexed me from the first, and I said something disagreeable to him. He replied. I flared up and said much that was unpleasant and even rude to him. He became silent, and I recollected myself only when it was too late. My God, I cannot get on with him at all. The cause of this is my egotism. I set myself above him and so become much worse than he, for he is lenient to my rudeness while I on the contrary nourish contempt for him. O God, grant that in his presence I may rather see my own vileness, and behave so that he too may benefit. After dinner I fell asleep and as I was drowsing off I clearly heard a voice saying in my left ear, "Thy day!"

I dreamed that I was walking in the dark and was suddenly surrounded by dogs, but I went on undismayed. Suddenly a smallish dog seized my left thigh with its teeth and would not let go. I began to throttle it with my hands. Scarcely had I torn it off before another, a bigger one, began biting me. I lifted it up, but the higher I lifted it the bigger and heavier it grew. And suddenly Brother A. came and, taking my arm, led me to a building to enter which we had to pass along a narrow plank. I stepped on it, but it bent and gave way and I began to clamber up a fence which I could scarcely reach with my hands. After much effort I dragged myself up, so that my leg hung down on one side and my body on the other. I looked round and saw Brother A. standing on the fence and pointing me to a broad avenue and garden, and in the garden was a large and beautiful building. I woke up. O Lord, great Architect of Nature, help me to tear from myself these dogs--my passions especially the last, which unites in itself the strength of all the former ones, and aid me to enter that temple of virtue to a vision of which I attained in my dream.

7th December

I dreamed that Joseph Alexeevich
was sitting in my house, and that I
was very glad and wished to entertain him. It seemed as if I chattered incessantly with other people and suddenly remembered that this could not please him, and I wished to come close to him and embrace him. But as soon as I drew near I saw that his face had changed and grown young, and he was quietly telling me something about the teaching of our order, but so softly that I could not hear it. Then it seemed that we all left the room and something strange happened. We were sitting or lying on the floor. He was telling me something, and I wished to show him my sensibility, and not listening to what he was saying I began picturing to myself the condition of my inner man and the grace of God sanctifying me. And tears came into my eyes, and I was glad he noticed this. But he looked at me with vexation and jumped up, breaking off his remarks. I felt abashed and asked whether what he had been saying did not concern me; but he did not reply, gave
me a
kind look, and then we suddenly found ourselves in my bedroom where there is a double bed. He lay down on the edge of it and I burned with longing to caress him and lie down too. And he said, "Tell me frankly what is your chief temptation? Do you know it? I think you know it already." Abashed by this question, I replied that sloth was my chief temptation. He shook his head incredulously; and even more abashed, I said that though I was living with my wife as he advised, I was not living with her as her husband. To this he replied that one should not deprive a wife of one's embraces and gave me to understand that that was my duty. But I replied that I should be ashamed to do it, and suddenly everything vanished. And I awoke and found in my mind the text from the Gospel: "The life was the light of men. And the light shineth in darkness; and the darkness comprehended it not." Joseph Alexeevich's face had looked young and bright. That day I received a letter from my benefactor in which
he
wrote about "conjugal duties."

9th December

I had a dream from which I awoke with a throbbing heart. I saw that I was in Moscow in my house, in the big sitting room, and Joseph Alexeevich came in from the drawing room. I seemed to know at once that the process of regeneration had already taken place in him, and I rushed to meet him. I embraced him and kissed his hands, and he said, "Hast thou noticed that my face is different?" I looked at him, still holding him in my arms, and saw that his face was young, but that he had no hair on his head and his features were quite changed. And I said, "I should have known you had I met you by chance," and I thought to myself, "Am I telling the truth?" And

suddenly I saw him lying like a dead body; then he gradually recovered and went with me into my study carrying a large book of sheets of drawing paper; I said, "I drew that," and he answered by bowing his head. I opened the book, and on all the pages there were excellent drawings. And in my
dream I knew that these drawings represented the
love adventures of the soul with its beloved. And on its pages I saw a beautiful representation of a maiden in transparent garments and with a transparent body, flying up to the clouds. And I seemed to know that this maiden was nothing else than a representation of the Song of Songs. And looking at those drawings I dreamed I felt that I was doing wrong, but could not tear myself away from them. Lord, help me! My God, if Thy forsaking me is Thy doing, Thy will be done; but if I am myself the cause, teach me what I should do! I shall perish of my debauchery if Thou utterly desertest me!

CHAPTER XI

The Rostovs' monetary affairs had not improved during the two years they had spent in the country.

Though Nicholas Rostov had kept firmly to his resolution and was still serving modestly in an obscure regiment, spending comparatively little, the way of life at Otradnoe--Mitenka's management of affairs, in particular--was such that the debts inevitably
increased every year. The only resource obviously
presenting itself to the old count was to apply for an official post, so he had come to Petersburg to look for one and also, as he said, to let the lassies enjoy themselves for the last time.

Soon after their arrival in Petersburg Berg proposed to Vera and was accepted.

Though in Moscow the Rostovs belonged to the best society without themselves giving it a thought, yet in Petersburg their circle of acquaintances was a mixed and indefinite one. In Petersburg they were provincials, and the very people they had entertained in Moscow without inquiring to what set they belonged, here looked down on them.

The Rostovs lived in the same hospitable way in Petersburg as in Moscow, and the most diverse people met at their suppers. Country neighbors from Otradnoe, impoverished old squires and their daughters,

Peronskaya a maid of honor, Pierre Bezukhov, and the son of their district postmaster who had obtained a post in Petersburg. Among the men who very soon became frequent visitors at the Rostovs' house in Petersburg were Boris, Pierre whom the count had met in the street and dragged home with him, and Berg who spent whole days at the Rostovs' and paid the eldest daughter, Countess Vera, the attentions a young man pays when he intends to propose.

Not in vain had Berg shown everybody his right hand wounded at Austerlitz and held a perfectly unnecessary sword in his left. He narrated that episode so persistently and with so important an air that everyone believed in the merit and usefulness of his deed, and he had obtained two decorations for Austerlitz.

In the Finnish war he also managed to distinguish himself. He had picked up the scrap of a grenade that had killed an aide-de-camp standing near the commander in chief and had taken it to his commander. Just as he had done after Austerlitz, he related this occurrence at such length and so insistently that everyone again believed it had been necessary to do this, and he received two decorations for the Finnish war also. In 1809 he was a captain in the Guards, wore medals, and held some special lucrative posts in Petersburg.

Though some skeptics smiled when told of Berg's merits, it could not be denied that he was a painstaking and brave officer, on excellent terms with his superiors, and a moral young man with a brilliant career before him and an assured position in society.

Four years before, meeting a German comrade in the stalls of a Moscow theater, Berg had pointed out Vera Rostova to him and had said in German, "das soll mein Weib werden,"* and from that moment had made up his mind to marry her. Now in Petersburg, having considered the Rostovs' position and his own, he decided that the time had come to propose.

*"That girl shall be my wife."

Berg's proposal was at first received with a perplexity that was not flattering to him. At first it seemed strange that the son of an obscure Livonian gentleman should propose marriage to a Countess Rostova; but Berg's chief characteristic was such a naive and good natured egotism that the Rostovs involuntarily came to think it

would be a good thing, since he himself was so firmly convinced that it was good, indeed excellent. Moreover, the Rostovs' affairs were seriously embarrassed, as the suitor could not but know; and above all, Vera was twenty-four, had been taken out everywhere, and though she was certainly good-looking and sensible, no one up to now had proposed to her. So they gave their consent.

"You see," said Berg to his comrade, whom he called "friend" only because he knew that everyone has friends, "you see, I have considered it all, and should not marry if I had not thought it all out or if it were in any way unsuitable. But on the contrary, my papa and mamma are now provided for--I have arranged that rent for them in the Baltic Provinces--and I can live in Petersburg on my pay, and with her fortune and my good management we can get along nicely. I am not marrying
for money--I consider that dishonorable--but a wife should bring her share and a husband his. I have my position in the service, she has connections and some means. In our times that is worth something, isn't it? But above all, she is a handsome, estimable girl, and she loves me..."

Berg blushed and smiled.

"And I love her, because her character is sensible and very good. Now the other sister, though they are the same family, is quite different--an unpleasant character and has not the same intelligence. She is so... you know?... Unpleasant... But my fiancee!... Well, you will be coming," he was going to say, "to dine," but changed his mind and said "to take tea with us," and quickly doubling up his tongue he blew a small round ring of tobacco smoke, perfectly embodying his dream of happiness.

After the first feeling of perplexity aroused in the parents by Berg's proposal, the holiday tone of joyousness usual at such times took possession of the family, but the rejoicing was
external and
insincere. In the family's feeling toward this wedding a certain awkwardness and constraint was evident, as if they were ashamed of not having loved Vera sufficiently and of being so ready to get her off their hands. The old count felt this most. He would probably have been unable to state the cause of his embarrassment, but it resulted from the state of his affairs. He did not know at all how much he had, what his debts amounted to, or what dowry he could give Vera. When his daughters were born he had assigned to each of them, for her dowry, an estate with three hundred serfs; but one of these estates had already been sold, and the other was mortgaged and the interest so much in arrears that it would have to be sold, so that it was impossible to give it to Vera. Nor had he any money.

Berg had already been engaged a month, and only a week remained before the wedding, but the count had not yet decided in his own mind the question of the dowry, nor spoken to his wife about it. At one time the count thought of giving her the Ryazan estate or of selling a forest, at another time of borrowing money on a note of hand. A few days before the wedding Berg entered the count's study early one morning and, with a pleasant smile, respectfully asked his future father-in-law to let him know what Vera's dowry would be. The count was so disconcerted by this long-foreseen inquiry that without consideration he gave the first reply that came into his head. "I like your being businesslike about it.... I like it. You shall be satisfied...."

And patting Berg on the shoulder he got up, wishing to end the conversation. But Berg, smiling pleasantly, explained that if he did not know for certain how much Vera would have and did not receive at least part of the dowry in advance, he would have to break matters off.

"Because, consider, Count--if I allowed myself to marry now without having definite means to maintain my wife, I should be acting badly...."

The conversation ended by the count, who wished to be generous and to avoid further importunity, saying that he would give a note of hand for eighty thousand rubles. Berg smiled meekly, kissed the count on the shoulder, and said that he was very grateful, but that it was impossible for him to arrange his new life without receiving thirty thousand in ready money. "Or at least twenty thousand, Count," he added, "and then a note of hand for only sixty thousand."

"Yes, yes, all right!" said the count hurriedly. "Only excuse me, my

dear fellow, I'll give you twenty thousand and a note of hand for eighty thousand as well. Yes, yes! Kiss me."

CHAPTER XII

Natasha was sixteen and it was the year 1809, the very year to which she had counted on her fingers with Boris after they had kissed four

years ago. Since then she had not seen him. Before Sonya and her mother, if Boris happened to be mentioned, she spoke quite freely of that episode as of some childish, long-forgotten matter that was not worth mentioning.
But in the secret depths of her soul the question whether her engagement to Boris was a jest or an important, binding promise tormented her.

Since Boris left Moscow in 1805 to join the army he had had not seen the Rostovs. He had been in Moscow several times, and had passed near Otradnoe, but had never been to see them.

Sometimes it occurred to Natasha that he not wish to see her, and this conjecture was confirmed by the sad tone in which her elders spoke of him.

"Nowadays old friends are not remembered," the countess would say when Boris was mentioned.

Anna Mikhaylovna also had of late visited them less frequently, seemed to hold herself with particular dignity, and always spoke rapturously and gratefully of the merits of her son and the brilliant career on which he had entered. When the Rostovs came to Petersburg Boris called on them.

He drove to their house in some agitation. The memory of Natasha was his most poetic recollection. But he went with the firm intention of letting
her and her parents feel that the childish relations between himself and Natasha could not be binding either on her or on him. He had a brilliant position in society thanks to his intimacy with Countess Bezukhova, a brilliant position in the service thanks to the patronage of an important personage whose complete confidence he enjoyed, and he was beginning to make plans for marrying one of the richest heiresses in Petersburg, plans which might very easily be realized. When he entered the Rostovs' drawing room Natasha was in her own room. When she heard of his arrival she almost ran into the drawing room, flushed and beaming with a more than cordial smile.

Boris remembered Natasha in a short dress, with dark eyes shining from under her curls and boisterous, childish laughter, as he had known her four years before; and so he was taken aback when quite a different Natasha entered, and his face expressed rapturous astonishment. This expression on his face pleased Natasha.

"Well, do you recognize
your little madcap playmate?" asked the countess.

Boris kissed Natasha's hand and said that he was astonished at the change in her.

"How handsome you have grown!"

"I should think so!" replied Natasha's laughing eyes.

"And is Papa older?" she asked.

Natasha sat down and, without joining in Boris' conversation with the countess, silently and minutely studied her childhood's suitor. He felt the weight of that resolute and affectionate scrutiny and glanced at her occasionally.

Boris' uniform, spurs, tie, and the way his hair was brushed were all comme il faut and in the latest fashion. This Natasha noticed at once. He sat rather sideways in the armchair next to the countess, arranging with his right hand the cleanest of gloves that fitted his left hand like a skin, and he spoke with a particularly refined compression of his lips about the amusements of the highest Petersburg society, recalling with mild irony old times in Moscow and Moscow acquaintances. It was not accidentally,
Natasha felt, that he alluded,
when speaking of the highest aristocracy, to an ambassador's ball he had attended, and to invitations he had received from N.N. and S.S.

All this time Natasha sat silent, glancing up at him from under her brows. This gaze disturbed and confused Boris more and more. He looked round more frequently toward her, and broke off in what he was saying. He did not stay more than ten minutes, then rose and took his leave. The same inquisitive, challenging, and rather mocking eyes still looked at him. After his first visit Boris said to himself that Natasha attracted him just as much as ever, but that he must not yield to that feeling, because to marry her, a girl almost without fortune, would mean ruin to his career, while to renew their former relations without intending to marry her would be dishonorable. Boris made up his mind to avoid meeting Natasha, but despite that resolution he called again a few days later and began calling often and spending whole days
at the Rostovs'. It seemed to him that he
ought to have an explanation with Natasha and tell her that the old times must be forgotten, that in spite of everything... she could not be his wife, that he had no means, and they would never let her marry him. But he failed to do so and felt awkward about entering on such an explanation. From day to day he became more and more entangled. It seemed to her mother and Sonya that Natasha was in love with Boris as of old. She sang him his favorite songs, showed him

her album, making him write in it, did not allow him to allude to the past, letting it be understood how was the present; and every day he went away in a fog, without having said what he meant to, and not knowing what he was doing or why he came, or how it would all end. He left off visiting Helene and received reproachful notes from her every day, and yet he continued to spend whole days with the Rostovs.

CHAPTER XIII

One night when the old countess, in nightcap and dressing jacket, without her false curls, and with her poor little knob of hair showing under her white cotton cap, knelt sighing and groaning on a rug and bowing to the ground in prayer, her door creaked and Natasha, also in a dressing jacket with slippers on her bare feet and her hair in curlpapers, ran in. The countess--her prayerful mood dispelled--looked round and frowned. She was finishing her last prayer: "Can it be that this couch will be my grave?" Natasha, flushed and eager, seeing her mother in prayer, suddenly checked her rush, half sat down, and unconsciously put out her tongue as if chiding herself. Seeing that her mother was still praying she ran on tiptoe to the bed and, rapidly slipping one little foot against the other, pushed off her slippers and jumped onto the bed the countess had feared might become her grave. This couch was high, with a feather bed and five pillows each smaller than the one below. Natasha jumped on it, sank into the feather bed, rolled over to the wall, and began snuggling up the bedclothes as she settled down, raising her knees to her chin, kicking out and laughing almost inaudibly, now covering herself up head and all, and now peeping at her mother. The countess finished her prayers and came to the bed with a stern face, but seeing, that Natasha's head was covered, she smiled in her kind, weak way.

"Now then, now then!" said she.

"Mamma, can we have a talk? Yes?" said Natasha. "Now, just one on your throat and another... that'll do!" And seizing her mother round the neck, she kissed her on the throat. In her behavior to her mother Natasha seemed rough, but she was so sensitive and tactful that however she clasped her mother she always managed to do it without hurting her or making her feel uncomfortable or displeased.

"Well, what is it tonight?" said the mother, having arranged her pillows and waited until Natasha, after turning over a couple of times, had settled down beside her under the quilt, spread out her arms, and assumed
a serious expression.

These visits of Natasha's at night before the count returned from his club were one of the greatest pleasures of both mother, and daughter.

"What is it tonight?--But I have to tell you..."

Natasha put her hand on her mother's mouth.

"About Boris... I know," she said seriously; "that's what I have come about. Don't say it--I know. No, do tell me!" and she removed her hand. "Tell me, Mamma! He's nice?"

"Natasha, you are sixteen. At your age I was married. You say Boris is nice. He is very nice, and I love him like a son. But what then?... What are you thinking about? You have quite turned his head, I can see that...."

As she said this the countess looked round at her daughter. Natasha was lying looking steadily straight before her at one of the mahogany sphinxes carved on the corners of the bedstead, so that the countess only saw her daughter's face in profile. That face struck her by its peculiarly serious and concentrated expression.

Natasha was listening
and considering.

"Well, what then?" said she.

"You have quite turned his head, and why? What do you want of him? You know you can't marry him."

"Why not?" said Natasha, without changing her position.

"Because he is young, because he is poor, because he is a relation... and because you yourself don't love him."

"How do you know?"

"I know. It is not right, darling!"

"But if I want to..." said Natasha.

"Leave off talking nonsense," said the countess.

"But if I want to..."

"Natasha, I am in earnest..."

Natasha did not let her finish. She drew the countess' large hand to her, kissed it on the back and then on the palm, then again turned it over and began kissing first one knuckle, then the space between the knuckles, then the next knuckle, whispering, "January, February, March, April, May. Speak, Mamma, why don't you say anything? Speak!" said she, turning to her mother, who was tenderly gazing at her daughter and in that contemplation seemed to have forgotten all she had wished
to say.

"It won't do, my love! Not everyone will understand this friendship dating from your childish days, and to see him so intimate with you may injure you in the eyes of other young men who visit us, and above all it torments him for nothing. He may already have found a suitable and wealthy match, and now he's half crazy."

"Crazy?" repeated Natasha.

"I'll tell you some things about myself. I had a cousin..."

"I know! Cyril Matveich... but he is old."

"He was not always old. But this is what I'll do, Natasha, I'll have a talk with Boris. He need not come so often...."

"Why not, if he likes to?"

"Because I know it will end in nothing...."

"How can you know? No, Mamma, don't speak to him! What nonsense!" said Natasha in the tone of one being deprived of her property. "Well, I won't marry, but let him come if he enjoys it and I enjoy it." Natasha smiled and looked at her mother. "Not to marry, but just so," she added.

"How so, my pet?"

"Just so. There's no need for me to marry
him. But... just so."

"Just so, just so," repeated the countess, and shaking all over, she went off into a good humored, unexpected, elderly laugh.

"Don't laugh, stop!" cried Natasha. "You're shaking the whole bed! You're awfully like me, just such another giggler.... Wait..." and she seized the countess' hands and kissed a knuckle of the little finger, saying, "June," and continued, kissing, "July, August," on the other hand. "But, Mamma, is he very much in love? What do you think? Was anybody ever so much in love with you? And he's very nice, very, very nice. Only not quite my taste--he is so narrow, like the dining-room clock.... Don't you understand? Narrow, you know--gray, light gray..."

"What rubbish you're talking!" said the countess.

Natasha continued: "Don't you really understand? Nicholas would understand.... Bezukhov, now, is blue, dark-blue and red, and he is square."

"You flirt with him too," said the countess, laughing.

"No, he is a Freemason, I have found out. He is fine, dark-blue and red.... How can I explain it to you?"

"Little countess!" the count's voice called from behind the door. "You're not asleep?" Natasha jumped up, snatched up her slippers, and ran barefoot to her own room.

It was a long time before she could sleep. She kept thinking that no one could understand all that she understood and all there was in her.

"Sonya?" she thought, glancing at that curled-up, sleeping little kitten with her enormous plait of hair. "No, how could she? She's virtuous. She fell in love with Nicholas and does not wish to know anything more. Even Mamma does not understand. It is wonderful how clever I am and how... charming she is," she went on, speaking of herself in the third person, and imagining it was some very wise man--the wisest and best of men--who was saying it of her. "There is everything, everything in her," continued this man. "She is unusually intelligent, charming... and then she is pretty, uncommonly pretty, and agile--she swims and rides splendidly... and her voice! One can really say it's a wonderful voice!"

She hummed a scrap from her favorite opera by Cherubini, threw herself on her bed, laughed at the pleasant thought that she would immediately fall asleep, called Dunyasha the maid to put out the candle, and before Dunyasha had left the room had already passed into yet another happier world of dreams, where everything was as

light and beautiful as in reality, and even more so because it was different.

Next day the countess called Boris aside and had a talk with him, after which he ceased coming to the Rostovs'.

CHAPTER XIV

On the thirty-first of December, New Year's Eve, 1809 --10 an old grandee of Catherine's day was giving a ball and midnight supper. The diplomatic corps and the Emperor himself were to be present.

The grandee's well-known mansion on the English Quay glittered with innumerable lights. Police were stationed at the brightly lit entrance which was carpeted with red baize, and not only gendarmes but dozens of police officers and even the police master himself stood at the porch. Carriages kept driving away and fresh ones arriving, with red-liveried footmen and footmen in plumed hats. From the carriages emerged men wearing uniforms, stars, and ribbons, while ladies in satin and ermine cautiously descended the carriage steps which were let down for them with a clatter, and then walked hurriedly and noiselessly over the baize at the entrance.

Almost every time a new carriage drove up a whisper ran through the crowd and caps were doffed.

"The Emperor?... No, a minister.... prince... ambassador. Don't you see the plumes?..." was whispered among the crowd.

One person, better dressed than the rest, seemed to know everyone and mentioned by name the greatest dignitaries of the day.

A third of the visitors had already arrived, but the Rostovs, who were to be present, were still hurrying to get dressed.

There had been many discussions and preparations for this ball in the Rostov family, many fears that the invitation would not arrive, that the dresses would not be ready, or that something would not be arranged as it should be.

Marya Ignatevna Peronskaya, a thin and shallow maid of honor at the court of the Dowager Empress, who was a friend and relation of the countess and piloted the provincial Rostovs in Petersburg high society, was to accompany them to the ball.

They were to call for her at her house in the Taurida Gardens at ten o'clock, but it was already five minutes to ten, and the girls were not yet dressed.

Natasha was going to her first grand ball. She had got up at eight that morning and had been in a fever of excitement and activity all day. All her powers since morning had been concentrated on ensuring that they all--she herself, Mamma, and Sonya--should be as well dressed as possible. Sonya and her mother put themselves entirely in her hands. The countess was to wear a claret-colored velvet dress, and the two girls white gauze over pink
silk slips, with roses on their
bodices and their hair dressed a la grecque.

Everything essential had already been done; feet, hands, necks, and ears washed, perfumed, and powdered, as befits a ball; the openwork silk stockings and white satin shoes with ribbons were already on; the hairdressing was almost done. Sonya was finishing dressing and so was the countess, but Natasha, who had bustled about helping them all, was behindhand. She was still sitting before a looking-glass with a dressing jacket thrown over her slender shoulders. Sonya stood ready dressed in the middle of the room and, pressing the head of a pin till it hurt her dainty finger, was fixing on a last ribbon that squeaked as the pin went through it.

"That's not the way, that's not the way, Sonya!" cried Natasha turning her head and clutching with both hands at her hair which the maid who was dressing it had not time to release. "That bow is not right. Come here!"

Sonya sat down and Natasha pinned the ribbon on differently.

"Allow
me, Miss! I can't do it like that," said the maid who was holding Natasha's hair.

"Oh, dear! Well then, wait. That's right, Sonya."

"Aren't you ready? It is nearly ten," came the countess' voice.

"Directly! Directly! And you, Mamma?"

"I have only my cap to pin on."

"Don't do it without me!" called Natasha. "You won't do it right."

"But it's already ten."

They had decided to be at the ball by half past ten, and Natasha had still to get dressed and they had to call at the Taurida Gardens.

When her hair was done, Natasha, in her short petticoat from under which her dancing shoes showed, and in her mother's dressing jacket, ran up to Sonya, scrutinized her, and then ran to her mother. Turning her mother's head this way and that, she fastened on the cap and, hurriedly kissing her gray hair, ran back to the maids who were turning up the hem of her skirt.

The cause of the delay was Natasha's skirt, which was too long. Two maids were turning up the hem and hurriedly biting off the ends of thread. A third with pins in her mouth was running about between the countess and Sonya, and a fourth held the whole of the gossamer garment up high on one uplifted hand.

"Mavra, quicker, darling!"

"Give me my thimble, Miss, from there..."

"Whenever will you be ready?" asked the count coming to the door. "Here is here is some scent. Peronskaya must be tired of waiting."

"It's ready, Miss," said the maid, holding up the shortened gauze dress with two fingers, and blowing and shaking something off it, as if by this to express a consciousness of the airiness and purity of what she held.

Natasha began putting on the dress.

"In a minute! In a minute! Don't come in, Papa!" she cried to her father as he opened the door--speaking from under the filmy skirt which still covered her whole face.

Sonya slammed the door to. A minute later they let the count in. He was wearing a blue swallow-tail coat, shoes and stockings, and was perfumed and his hair pomaded.

"Oh, Papa! how nice you look! Charming!" cried Natasha, as she stood in the middle of the room smoothing out the folds of the gauze.

"If you please, Miss! allow me," said the maid, who on her knees was pulling the skirt straight and shifting the pins from one side of her mouth to the other with her tongue.

"Say what you like," exclaimed Sonya, in a despairing voice as she looked at Natasha, "say what you like, it's still too long."

Natasha stepped back to look at herself in the pier glass. The dress was too long.

"Really, madam, it is not at all too long," said Mavra, crawling on her knees after her young lady.

"Well, if it's too long we'll take it up... we'll tack it up in one minute," said the resolute Dunyasha taking a needle that was stuck on the front of her little shawl and, still kneeling on the floor, set to work once more.

At that moment, with soft steps, the countess came in shyly, in her cap and velvet gown.

"Oo-oo, my beauty!" exclaimed the count, "she looks better than any
of you!"

He would have embraced her but, blushing, she stepped aside fearing to be rumpled.

"Mamma, your cap, more to this side," said Natasha. "I'll arrange it," and she rushed forward so that the maids who were tacking up her skirt could not move fast enough and a piece of gauze was torn off.

"Oh goodness! What has happened? Really it was not my fault!"

"Never mind, I'll run it up, it won't show," said Dunyasha.

"What a beauty--a very queen!" said the nurse as she came to the door. "And Sonya! They are lovely!"

At a quarter past ten they at last got into their carriages and started. But they had still to call at the Taurida Gardens.

Peronskaya was quite ready. In spite of her age and plainness she had gone through the same process as the Rostovs, but with less flurry--for to her it was a matter of routine. Her ugly old body was washed, perfumed, and powdered in just the same way. She had washed behind her ears just as carefully, and when she entered her drawing

room in her yellow
dress, wearing her badge as maid of honor, her
old lady's maid was as full of rapturous admiration as the Rostovs'
servants had been.

She praised the Rostovs' toilets. They praised her taste and toilet,
and at eleven o'clock, careful of their coiffures and dresses, they
settled themselves in their carriages and drove off.

CHAPTER XV

Natasha had not had a moment free since early morning and had not
once had time to think of what lay before her.

In the damp chill air and crowded closeness of the swaying carriage,
she for the first time vividly imagined what was in store for her
there at the ball, in those brightly lighted rooms--with music,
flowers, dances, the Emperor, and all the brilliant young people of
Petersburg. The prospect was so splendid that she hardly believed it
would come true, so out of keeping was it with the chill darkness
and closeness of the carriage. She understood all that awaited her
only when, after stepping over the red baize at the entrance, she
entered
the hall, took off her fur cloak, and, beside Sonya and in
front of her mother, mounted the brightly illuminated stairs between
the flowers. Only then did she remember how she must behave at a ball,
and tried to assume the majestic air she considered indispensable
for a girl on such an occasion. But, fortunately for her, she felt her
eyes growing misty, she saw nothing clearly, her pulse beat a
hundred to the minute, and the blood throbbed at her heart. She
could not assume that pose, which would have made her ridiculous,
and she moved on almost fainting from excitement and trying with all
her might to conceal it. And this was the very attitude that became
her best. Before and behind them other visitors were entering, also
talking in low tones and wearing ball dresses. The mirrors on the
landing reflected ladies in white, pale-blue, and pink dresses, with
diamonds and pearls on their bare necks and arms.

Natasha looked in the mirrors and could not distinguish her
reflection from
the others. All was blended into one brilliant
procession. On entering the ballroom the regular hum of voices,
footsteps, and greetings deafened Natasha, and the light and glitter

dazzled her still more. The host and hostess, who had already been standing at the door for half an hour repeating the same words to the various arrivals, "Charme de vous voir,"* greeted the Rostovs and Peronskaya in the same manner.

*"Delighted to see you."

The two girls in their white dresses, each with a rose in her black hair, both curtsied in the same way, but the hostess' eye involuntarily rested longer on the slim Natasha. She looked at her and gave her alone a special smile in addition to her usual smile as hostess. Looking at her she may have recalled the golden, irrecoverable days of her own girlhood and her own first ball. The host also followed Natasha with his eyes and asked the count which was his daughter.

"Charming!" said he, kissing the tips of his fingers.

In the ballroom guests stood
crowding at the entrance doors awaiting
the Emperor. The countess took up a position in one of the front rows of that crowd. Natasha heard and felt that several people were asking about her and looking at her. She realized that those noticing her liked her, and this observation helped to calm her.

"There are some like ourselves and some worse," she thought.

Peronskaya was pointing out to the countess the most important people at the ball.

"That is the Dutch ambassador, do you see? That gray-haired man," she said, indicating an old man with a profusion of silver-gray curly hair, who was surrounded by ladies laughing at something he said.

"Ah, here she is, the Queen of Petersburg, Countess Bezukhova," said Peronskaya, indicating Helene who had just entered. "How lovely! She is quite equal to Marya Antonovna. See how the men, young and old, pay court to her. Beautiful and clever... they say Prince--is quite mad about her. But see, those two, though not good-looking, are even more run
after."

She pointed to a lady who was crossing the room followed by a very plain daughter.

"She is a splendid match, a millionairess," said Peronskaya. "And look, here come her suitors."

"That is Bezukhova's brother, Anatole Kuragin," she said, indicating a handsome officer of the Horse Guards who passed by them with head erect, looking at something over the heads of the ladies. "He's handsome, isn't he? I hear they will marry him to that rich girl. But your cousin, Drubetskoy, is also very attentive to her. They say she has millions. Oh yes, that's the French ambassador himself!" she replied to the countess' inquiry about Caulaincourt. "Looks as if he were a king! All the same, the French are charming, very charming. No one more charming in society. Ah, here she is! Yes, she is still the most beautiful of them all, our Marya Antonovna! And how simply she is dressed! Lovely! And that stout one in spectacles is the universal Freemason," she went on, indicating Pierre. "Put him beside
his wife and he looks a regular buffoon!"

Pierre, swaying his stout body, advanced, making way through the crowd and nodding to right and left as casually and good-naturedly as if he were passing through a crowd at a fair. He pushed through, evidently looking for someone.

Natasha looked joyfully at the familiar face of Pierre, "the buffoon," as Peronskaya had called him, and knew he was looking for them, and for her in particular. He had promised to be at the ball and introduce partners to her.

But before he reached them Pierre stopped beside a very handsome, dark man of middle height, and in a white uniform, who stood by a window talking to a tall man wearing stars and a ribbon. Natasha at once recognized the shorter and younger man in the white uniform: it was Bolkonski, who seemed to her to have grown much younger, happier, and better-looking.

"There's someone else we know--Bolkonski, do you see, Mamma?" said Natasha, pointing out Prince Andrew. "You remember, he stayed a night
with us at Otradnoe."

"Oh, you know him?" said Peronskaya. "I can't bear him. Il fait a present la pluie et le beau temps.* He's too proud for anything. Takes after his father. And he's hand in glove with Speranski, writing some project or other. Just look how he treats the ladies! There's one talking to him and he has turned away," she said, pointing at him. "I'd give it to him if he treated me as he does those ladies."

*"He is all the rage just now.

CHAPTER XVI

Suddenly everybody stirred, began talking, and pressed forward and then back, and between the two rows, which separated, the Emperor entered to the sounds of music that had immediately struck up. Behind him walked his host and hostess. He walked in rapidly, bowing to right and left as if anxious to get the first moments of the reception over. The band played the polonaise in vogue at that time on account of the words that had been set to it, beginning: "Alexander, Elisaveta, all our hearts you ravish quite..." The Emperor passed on to the drawing room, the crowd made a rush for the doors, and several persons with excited faces hurried there and back again. Then the crowd hastily retired from the drawing-room door, at which the Emperor reappeared talking to the hostess. A young man, looking distraught, pounced down on the ladies, asking them to move aside. Some ladies, with faces betraying complete forgetfulness of all the rules of decorum, pushed forward to the detriment of their toilets. The men began to choose partners and take their places for the polonaise.

Everyone moved back, and the Emperor came smiling out of the drawing room leading his hostess by the hand but not keeping time to the music. The host followed with Marya Antonovna Naryshkina; then came ambassadors, ministers, and various generals, whom Peronskaya diligently named. More than half the ladies already had partners and were taking up, or preparing to take up, their positions for the polonaise. Natasha felt that she would be left with her mother and Sonya among a minority of women who crowded near the wall, not having been invited to dance. She stood with her slender arms hanging down, her scarcely defined bosom rising and falling regularly, and with bated breath and glittering, frightened eyes gazed straight before her, evidently prepared for the height of joy or misery. She was not concerned about the Emperor or any of those great people whom Peronskaya was pointing out--she had but one thought: "Is it possible no one will ask me, that I shall not be among the first to dance? Is it possible that not one of all these men will notice me? They do not even seem to see me, or if they do they look as if they were saying, 'Ah, she's not the one I'm after, so it's not worth looking at her!' No, it's impossible," she thought. "They must know

how I long to dance, how splendidly I dance, and how they would enjoy dancing with me."

The strains of the polonaise, which had continued for a considerable time, had begun to sound like a sad reminiscence to Natasha's ears.

She wanted to cry. Peronskaya had left them. The count was at the other end of the room. She and the countess and Sonya were standing by themselves as in the depths of a forest amid that crowd of strangers, with no one interested in them and not wanted by anyone. Prince Andrew with a lady passed by, evidently not recognizing them. The handsome Anatole was smilingly talking to a partner on his arm and looked at Natasha as one looks at a wall. Boris passed them twice and each time turned away. Berg and his wife, who were not dancing, came up to them.

This family gathering seemed humiliating to Natasha--as if there were nowhere else for the family to talk but here at the ball. She did not listen to or look at Vera, who was telling her something about her own green dress.

At last the Emperor stopped beside his last partner (he had danced with three) and the music ceased. A worried aide-de-camp ran up to the Rostovs requesting them to stand farther back, though as it was they were already close to the wall, and from the gallery resounded the distinct, precise, enticingly rhythmical strains of a waltz. The Emperor looked smilingly down the room. A minute passed but no one had yet begun dancing. An aide-de-camp, the Master of Ceremonies, went up to Countess Bezukhova and asked her to dance. She smilingly raised her hand and laid it on his shoulder without looking at him. The aide-de-camp, an adept in his art, grasping his partner firmly round her waist, with confident deliberation started smoothly, gliding first round the edge of the circle, then at the corner of the room he caught Helene's left hand and turned her, the only sound audible, apart from the ever-quickening music, being the rhythmic click of the spurs on his rapid, agile feet, while at every third beat his partner's velvet dress spread out and seemed to flash as she whirled round. Natasha gazed at them and was ready to cry because it was not she who was dancing that first turn of the waltz.

Prince Andrew, in the white uniform of a cavalry colonel, wearing stockings and dancing shoes, stood looking animated and bright in the front row of the circle not far from the Rostovs. Baron Firhoff was talking to him about the first sitting of the Council of State to be held next day. Prince Andrew, as one closely connected with Speranski and participating in the work of the legislative commission,

could give reliable information about that sitting, concerning which various rumors were current. But not listening to what Firhoff was saying, he was gazing now at the sovereign and now at the men intending to dance who had not yet gathered courage to enter the circle.

Prince Andrew was watching these men abashed by the Emperor's presence, and the women who were breathlessly longing to be asked to dance.

Pierre came up to him and caught him by the arm.

"You always dance. I have a protegee, the young Rostova, here. Ask her," he said.

"Where is she?" asked
Bolkonski. "Excuse me!" he added, turning to
the baron, "we will finish this conversation elsewhere--at a ball one must dance." He stepped forward in the direction Pierre indicated. The despairing, dejected expression of Natasha's face caught his eye. He recognized her, guessed her feelings, saw that it was her debut, remembered her conversation at the window, and with an expression of pleasure on his face approached Countess Rostova.

"Allow me to introduce you to my daughter," said the countess, with heightened color.

"I have the pleasure of being already acquainted, if the countess remembers me," said Prince Andrew with a low and courteous bow quite belying Peronskaya's remarks about his rudeness, and approaching Natasha he held out his arm to grasp her waist before he had completed his invitation. He asked her to waltz. That tremulous expression on Natasha's face, prepared either for despair or rapture, suddenly brightened into a happy, grateful, childlike smile.

"I have long
been waiting for you," that frightened happy little
girl seemed to say by the smile that replaced the threatened tears, as she raised her hand to Prince Andrew's shoulder. They were the second couple to enter the circle. Prince Andrew was one of the best dancers of his day and Natasha danced exquisitely. Her little feet in their white satin dancing shoes did their work swiftly, lightly, and independently of herself, while her face beamed with ecstatic happiness. Her slender bare arms and neck were not beautiful--compared to Helene's her shoulders looked thin and her bosom undeveloped. But Helene seemed, as it were, hardened by a varnish left by the thousands of looks that had scanned her person, while Natasha was like a girl exposed for the first time, who would have felt very much ashamed

had she not been assured that this was absolutely necessary.

Prince Andrew liked dancing, and wishing to escape as quickly as possible from the political and clever talk which everyone addressed to
him, wishing also to break up the circle of restraint he disliked, caused by the Emperor's presence, he danced, and had chosen Natasha because Pierre pointed her out to him and because she was the first pretty girl who caught his eye; but scarcely had he embraced that slender supple figure and felt her stirring so close to him and smiling so near him than the wine of her charm rose to his head, and he felt himself revived and rejuvenated when after leaving her he stood breathing deeply and watching the other dancers.

CHAPTER XVII

After Prince Andrew, Boris came up to ask Natasha for dance, and then the aide-de-camp who had opened the ball, and several other young men, so that, flushed and happy, and passing on her superfluous partners to Sonya, she did not cease dancing all the evening. She noticed and saw nothing of what occupied everyone else. Not only did she fail to notice that the Emperor talked a long time with the French ambassador, and how particularly gracious he was to
a certain lady, or
that Prince So-and-so and So-and-so did and said this and that, and that Helene had great success and was honored was by the special attention of So-and-so, but she did not even see the Emperor, and only noticed that he had gone because the ball became livelier after his departure. For one of the merry cotillions before supper Prince Andrew was again her partner. He reminded her of their first encounter in the Otradnoe avenue, and how she had been unable to sleep that moonlight night, and told her how he had involuntarily overheard her. Natasha blushed at that recollection and tried to excuse herself, as if there had been something to be ashamed of in what Prince Andrew had overheard.

Like all men who have grown up in society, Prince Andrew liked meeting someone there not of the conventional society stamp. And such was Natasha, with her surprise, her delight, her shyness, and even her mistakes in speaking French. With her he behaved with special care and tenderness,
sitting beside her and talking of the simplest
and most unimportant matters; he admired her shy grace. In the

middle of the cotillion, having completed one of the figures, Natasha, still out of breath, was returning to her seat when another dancer chose her. She was tired and panting and evidently thought of declining, but immediately put her hand gaily on the man's shoulder, smiling at Prince Andrew.

"I'd be glad to sit beside you and rest: I'm tired; but you see how they keep asking me, and I'm glad of it, I'm happy and I love everybody, and you and I understand it all," and much, much more was said in her smile. When her partner left her Natasha ran across the room to choose two ladies for the figure.

"If she goes to her cousin first and then to another lady, she will be my wife," said Prince Andrew to himself quite to his own surprise, as he watched her. She did go first to her cousin.

"What rubbish sometimes enters one's head!" thought Prince Andrew, "but what is certain is
that that girl is so charming, so original,
that she won't be dancing here a month before she will be married.... Such as she are rare here," he thought, as Natasha, readjusting a rose that was slipping on her bodice, settled herself beside him.

When the cotillion was over the old count in his blue coat came up to the dancers. He invited Prince Andrew to come and see them, and asked his daughter whether she was enjoying herself. Natasha did not answer at once but only looked up with a smile that said reproachfully: "How can you ask such a question?"

"I have never enjoyed myself so much before!" she said, and Prince Andrew noticed how her thin arms rose quickly as if to embrace her father and instantly dropped again. Natasha was happier than she had ever been in her life. She was at that height of bliss when one becomes completely kind and good and does not believe in the possibility of evil, unhappiness, or sorrow.

At that ball Pierre for the first time felt humiliated by the position
his wife occupied in court circles. He was gloomy and absent-minded. A deep furrow ran across his forehead, and standing by a window he stared over his spectacles seeing no one.

On her way to supper Natasha passed him.

Pierre's gloomy, unhappy look struck her. She stopped in front of him. She wished to help him, to bestow on him the superabundance of her own happiness.

"How delightful it is, Count!" said she. "Isn't it?"

Pierre smiled absent-mindedly, evidently not grasping what she said.

"Yes, I am very glad," he said.

"How can people be dissatisfied with anything?" thought Natasha. "Especially such a capital fellow as Bezukhov!" In Natasha's eyes all the people at the ball alike were good, kind, and splendid people, loving one another; none of them capable of injuring another--and so they ought all to be happy.

CHAPTER XVIII

Next day Prince Andrew thought of the ball, but his mind did not dwell on it long. "Yes, it was a very brilliant ball," and then... "Yes, that little Rostova is very charming. There's something fresh, original, un-Petersburg-like about her that distinguishes her." That was all he thought about yesterday's ball, and after his morning tea he set to work.

But either from fatigue or want of sleep he was ill-disposed for work and could get nothing done. He kept criticizing his own work, as he often did, and was glad when he heard someone coming.

The visitor was Bitski, who served on various committees, frequented all the societies in Petersburg, and a passionate devotee of the new ideas and of Speranski, and a diligent Petersburg newsmonger--one of those men who choose their opinions like their clothes according to the fashion, but who for that very reason appear to be the warmest partisans. Hardly had he got rid of his hat before he ran into Prince Andrew's room with a preoccupied air and at once began talking. He had just heard particulars of that morning's sitting of the Council of State opened by the Emperor, and he spoke of it enthusiastically.

The Emperor's speech had been extraordinary. It had been a speech such as only constitutional monarchs deliver. "The Sovereign plainly said that the Council and Senate are estates of the realm, he said that the government must rest not on authority but on secure bases. The Emperor said that the fiscal system must be reorganized and the accounts published," recounted Bitski, emphasizing certain words and opening

his eyes significantly.

"Ah, yes! Today's events mark an epoch, the greatest epoch in our history," he concluded.

Prince Andrew listened to the account of the opening of the Council of State, which he had so impatiently awaited and to which he had attached such importance, and was surprised that this event, now that it had taken place, did not affect him, and even seemed quite insignificant. He listened with quiet irony to Bitski's enthusiastic account of it. A very simple thought occurred to him: "What does it matter to me or to Bitski what the Emperor was pleased to say at the Council? Can all that make me any happier or better?"

And this simple reflection suddenly destroyed all the interest Prince Andrew had felt in the impending reforms. He was going to dine that evening at Speranski's, "with only a few friends," as the host had said when inviting him. The prospect of that dinner in the intimate home circle of the man he so admired had greatly interested Prince Andrew, especially as he had not yet seen Speranski in his domestic surroundings, but now he felt disinclined to go to it.

At the appointed hour, however, he entered the modest house Speranski owned in the Taurida Gardens. In the parqueted dining room this small house, remarkable for its extreme cleanliness (suggesting that of a monastery), Prince Andrew, who was rather late, found the friendly gathering of Speranski's intimate acquaintances already assembled at five o'clock. There were no ladies present except Speranski's little daughter (long-faced like her father) and her governess.

The other guests were Gervais, Magnitski, and Stolypin.

While still in the anteroom Prince Andrew heard loud voices and a ringing staccato laugh--a laugh such as one hears on the stage. Someone--it sounded like Speranski--was distinctly ejaculating ha-ha-ha. Prince Andrew had never before heard Speranski's famous laugh, and this ringing, high pitched laughter from a statesman made a strange impression on him.

He entered the dining room. The whole company were standing between two windows at a small table laid with hors-d'oeuvres. Speranski, wearing a gray swallow-tail coat with a star on the breast, and evidently still the same waistcoat and high white stock he had worn at the meeting of the Council of State, stood at the table with a beaming countenance. His guests surrounded him. Magnitski, addressing himself to Speranski, was relating an anecdote, and Speranski was laughing in advance at what Magnitski was going to say. When Prince Andrew entered the room Magnitski's words

were
again crowned by laughter. Stolypin gave a deep bass guffaw as he munched a piece of bread and cheese. Gervais laughed softly with a hissing chuckle, and Speranski in a high-pitched staccato manner.

Still laughing, Speranski held out his soft white hand to Prince Andrew.

"Very pleased to see you, Prince," he said. "One moment..." he went on, turning to Magnitski and interrupting his story. "We have agreed that this is a dinner for recreation, with not a word about business!" and turning again to the narrator he began to laugh afresh.

Prince Andrew looked at the laughing Speranski with astonishment, regret, and disillusionment. It seemed to him that this was not Speranski but someone else. Everything that had formerly appeared mysterious and fascinating in Speranski suddenly became plain and unattractive.

At dinner the conversation did not cease for a moment and seemed to consist of the contents of a book of funny anecdotes. Before Magnitski had finished his story someone else
was anxious to relate
something still funnier. Most of the anecdotes, if not relating to the state service, related to people in the service. It seemed that in this company the insignificance of those people was so definitely accepted that the only possible attitude toward them was one of good humored ridicule. Speranski related how at the Council that morning a deaf dignitary, when asked his opinion, replied that he thought so too. Gervais gave a long account of an official revision, remarkable for the stupidity of everybody concerned. Stolypin, stuttering, broke into the conversation and began excitedly talking of the abuses that existed under the former order of things--threatening to give a serious turn to the conversation. Magnitski starting quizzing Stolypin about his vehemence. Gervais intervened with a joke, and the talk reverted to its former lively tone.

Evidently Speranski liked to rest after his labors and find amusement in a circle of friends, and his guests, understanding
his
wish, tried to enliven him and amuse themselves. But their gaiety seemed to Prince Andrew mirthless and tiresome. Speranski's high-pitched voice struck him unpleasantly, and the incessant laughter grated on him like a false note. Prince Andrew did not laugh and feared that he would be a damper on the spirits of the company, but no one took any notice of his being out of harmony with the general mood. They all seemed very gay.

He tried several times to join in the conversation, but his remarks were tossed aside each time like a cork thrown out of the water, and he could not jest with them.

There was nothing wrong or unseemly in what they said, it was witty and might have been funny, but it lacked just that something which is the salt of mirth, and they were not even aware that such a thing existed.

After dinner Speranski's daughter and her governess rose. He patted the little girl with his white hand and kissed her. And that gesture, too, seemed unnatural to Prince Andrew.

The men remained at table over their port--English fashion. In the midst of a conversation that was started about Napoleon's Spanish affairs, which they all agreed in approving, Prince Andrew began to express a contrary opinion. Speranski smiled and, with an evident wish to prevent the conversation from taking an unpleasant course, told a story that had no connection with the previous conversation. For a few moments all were silent.

Having sat some time at table, Speranski corked a bottle of wine and, remarking, "Nowadays good wine rides in a carriage and pair," passed it to the servant and got up. All rose and continuing to talk loudly went into the drawing room. Two letters brought by a courier were handed to Speranski and he took them to his study. As soon as he had left the room the general merriment stopped and the guests began to converse sensibly and quietly with one another.

"Now for the recitation!" said Speranski on returning from his study. "A wonderful talent!" he said to Prince Andrew, and Magnitski immediately assumed a pose and began reciting some humorous verses in French which he had composed about various well-known Petersburg people. He was interrupted several times by applause. When the verses were finished Prince Andrew went up to Speranski and took his leave.

"Where are you off to so early?" asked Speranski.

"I promised to go to a reception."

They said no more. Prince Andrew looked closely into those mirrorlike, impenetrable eyes, and felt that it had been ridiculous of him to have expected anything from Speranski and from any of his own activities connected with him, or ever to have attributed importance to what Speranski was doing. That precise, mirthless laughter rang

in Prince Andrew's ears long after he had left the house.

When he reached home Prince Andrew began thinking of his life in Petersburg during those last four months as if it were something new. He recalled his exertions and solicitations, and the history of his project of army reform, which had been accepted for consideration and which they were trying to pass over in silence simply because another, a very poor one, had already been prepared and submitted to the Emperor. He thought of the meetings of a committee of which Berg was a member. He remembered how carefully and at what length everything relating to form and procedure was discussed at those meetings, and how sedulously and promptly all that related to the gist of the business was evaded. He recalled his labors on the Legal Code, and how painstakingly he had translated the articles of the Roman and French codes into Russian, and he felt ashamed of himself. Then he vividly pictured to himself Bogucharovo, his occupations in the country, his journey to Ryazan; he remembered the peasants and Dron the village elder, and mentally applying to them the Personal Rights he had divided into paragraphs, he felt astonished that he could have spent so much time on such useless work.

CHAPTER XIX

Next day Prince Andrew called at a few houses he had not visited before, and among them at the Rostovs' with whom he had renewed acquaintance at the ball. Apart from considerations of politeness which demanded the call, he wanted to see that original, eager girl who had left such a pleasant impression on his mind, in her own home.

Natasha was one of the first to meet him. She was wearing a dark-blue house dress in which Prince Andrew thought her even prettier than in her ball dress. She and all the Rostov family welcomed him as an old friend, simply and cordially. The whole family, whom he had formerly judged severely, now seemed to him to consist of excellent, simple, and kindly people. The old count's hospitality and good nature, which struck one especially in Petersburg as a pleasant surprise, were such that Prince Andrew could not refuse to stay to dinner. "Yes," he thought, "they are capital people, who of course have not the slightest idea what a treasure they possess in Natasha; but

they are kindly folk and form the best possible setting
for this strikingly poetic, charming girl, overflowing with life!"

In Natasha Prince Andrew was conscious of a strange world completely alien to him and brimful of joys unknown to him, a different world, that in the Otradnoe avenue and at the window that moonlight night had already begun to disconcert him. Now this world disconcerted him no longer and was no longer alien to him, but he himself having entered it found in it a new enjoyment.

After dinner Natasha, at Prince Andrew's request, went to the clavichord and began singing. Prince Andrew stood by a window talking to the ladies and listened to her. In the midst of a phrase he ceased speaking and suddenly felt tears choking him, a thing he had thought impossible for him. He looked at Natasha as she sang, and something new and joyful stirred in his soul. He felt happy and at the same time sad. He had absolutely nothing to weep about yet he was ready to weep. What about? His
former love? The little princess? His
disillusionments?... His hopes for the future?... Yes and no. The chief reason was a sudden, vivid sense of the terrible contrast between something infinitely great and illimitable within him and that limited and material something that he, and even she, was. This contrast weighed on and yet cheered him while she sang.

As soon as Natasha had finished she went up to him and asked how he liked her voice. She asked this and then became confused, feeling that she ought not to have asked it. He smiled, looking at her, and said he liked her singing as he liked everything she did.

Prince Andrew left the Rostovs' late in the evening. He went to bed from habit, but soon realized that he could not sleep. Having lit his candle he sat up in bed, then got up, then lay down again not at all troubled by his sleeplessness: his soul was as fresh and joyful as if he had stepped out of a stuffy room into God's own fresh air. It did not enter his head that he was in
love with Natasha;
he was not thinking about her, but only picturing her to himself, and in consequence all life appeared in a new light. "Why do I strive, why do I toil in this narrow, confined frame, when life, all life with all its joys, is open to me?" said he to himself. And for the first time for a very long while he began making happy plans for the future. He decided that he must attend to his son's education by finding a tutor and putting the boy in his charge, then he ought to retire from the service and go abroad, and see England, Switzerland and Italy. "I must use my freedom while I feel so much strength and youth in me," he said to himself. "Pierre was right when he said one must believe in the possibility of happiness in order to be happy, and

now I do believe in it. Let the dead bury their dead, but while one has life one must live and be happy!" thought he.

CHAPTER XX

One morning Colonel Berg, whom Pierre knew as he knew everybody in Moscow and Petersburg, came to see him. Berg arrived in an immaculate brand-new uniform, with his hair pomaded and brushed forward over his temples as the Emperor Alexander wore his hair.

"I have just been to see the countess, your wife. Unfortunately she could not grant my request, but I hope, Count, I shall be more fortunate with you," he said with a smile.

"What is it you wish, Colonel? I am at your service."

"I have now quite settled in my new rooms, Count" (Berg said this with perfect conviction that this information could not but be agreeable), "and so I wish to arrange just a small party for my own and my wife's friends." (He smiled still more pleasantly.) "I wished to ask the countess and you to do me the honor of coming to tea and to supper."

Only Countess Helene, considering the society of such people as the Bergs beneath her, could be cruel enough to refuse such an invitation. Berg explained so clearly why he wanted to collect at his house a small but select company, and why this would give him pleasure, and why though he grudged spending money on cards or anything harmful, he was prepared to run into some expense for the sake of good society--that Pierre could not refuse, and promised to come.

"But don't be late, Count, if I may venture to ask; about ten minutes to eight, please. We shall make up a rubber. Our general is coming. He is very good to me. We shall have supper, Count. So you will do me the favor."

Contrary to his habit of being late, Pierre on that day arrived at the Bergs' house, not at ten but at fifteen minutes to eight.

Having prepared everything necessary for the party, the Bergs were

ready for their guests' arrival.

In their new, clean, and light study with its small busts and pictures and new furniture sat Berg and his wife. Berg, closely buttoned up in his new uniform, sat beside his wife explaining to her that one always could and should be acquainted with people above one, because only then does one get satisfaction from acquaintances.

"You can get to know something, you can ask for something. See how I managed from my first promotion." (Berg measured his life not by years but by promotions.) "My comrades are still nobodies, while I am only waiting for a vacancy to command a regiment, and have the happiness to be your husband." (He rose and kissed Vera's hand, and on the way to her straightened out a turned-up corner of the carpet.) "And how have I obtained all this? Chiefly by knowing how to choose my aquaintances. It goes without saying that one must be conscientious and methodical."

Berg smiled with a sense of his superiority over a weak woman, and paused, reflecting that this dear wife of his was after all but a weak woman who could not understand all that constitutes a man's dignity, what it was ein Mann zu sein.* Vera at the same time smiling with a sense of superiority over her good, conscientious husband, who all the same understood life wrongly, as according to Vera all men did. Berg, judging by his wife, thought all women weak and foolish. Vera, judging only by her husband and generalizing from that observation, supposed that all men, though they understand nothing and are conceited and selfish, ascribe common sense to themselves alone.

*To be a man.

Berg rose and embraced his wife carefully, so as not to crush her lace fichu for which he had paid a good price, kissing her straight on the lips.

"The only thing is, we mustn't have children too soon," he continued, following an unconscious sequence of ideas.

"Yes," answered Vera, "I don't at all want that. We must live for society."

"Princess Yusupova wore one exactly like this," said Berg, pointing to the fichu with a happy and kindly smile.

Just then Count Bezukhov was announced. Husband and wife glanced at one another, both smiling with self-satisfaction, and each mentally claiming the honor of this visit.

"This is what what comes of knowing how to make acquaintances," thought Berg. "This is what comes of knowing how to conduct oneself."

"But
please don't interrupt me when I am entertaining the guests,"
said Vera, "because I know what interests each of them and what to say to different people."

Berg smiled again.

"It can't be helped: men must sometimes have masculine conversation," said he.

They received Pierre in their small, new drawing-room, where it was impossible to sit down anywhere without disturbing its symmetry, neatness, and order; so it was quite comprehensible and not strange that Berg, having generously offered to disturb the symmetry of an armchair or of the sofa for his dear guest, but being apparently painfully undecided on the matter himself, eventually left the visitor to settle the question of selection. Pierre disturbed the symmetry by moving a chair for himself, and Berg and Vera immediately began their evening party, interrupting each other in their efforts to entertain their guest.

Vera, having decided in her own mind that Pierre ought to be entertained with conversation about the French embassy,
at once
began accordingly. Berg, having decided that masculine conversation was required, interrupted his wife's remarks and touched on the question of the war with Austria, and unconsciously jumped from the general subject to personal considerations as to the proposals made him to take part in the Austrian campaign and the reasons why he had declined them. Though the conversation was very incoherent and Vera was angry at the intrusion of the masculine element, both husband and wife felt with satisfaction that, even if only one guest was present, their evening had begun very well and was as like as two peas to every other evening party with its talk, tea, and lighted candles.

Before long Boris, Berg's old comrade, arrived. There was a shade of condescension and patronage in his treatment of Berg and Vera. After Boris came a lady with the colonel, then the general himself, then the Rostovs, and the party became unquestionably exactly like all other evening parties. Berg and Vera could

not repress their smiles of
satisfaction at the sight of all this movement in their drawing
room, at the sound of the disconnected talk, the rustling of
dresses, and the bowing and scraping. Everything was just as everybody
always has it, especially so the general, who admired the apartment,
patted Berg on the shoulder, and with parental authority superintended
the setting out of the table for boston. The general sat down by Count
Ilya Rostov, who was next to himself the most important guest. The old
people sat with the old, the young with the young, and the hostess
at the tea table, on which stood exactly the same kind of cakes in a
silver cake basket as the Panins had at their party. Everything was
just as it was everywhere else.

CHAPTER XXI

Pierre, as one of the principal guests, had to sit down to boston
with Count Rostov, the general, and the colonel. At the card table
he happened to be directly facing Natasha, and was struck by a curious
change that had come over her since
the ball. She was silent, and
not only less pretty than at the ball, but only redeemed from
plainness by her look of gentle indifference to everything around.

"What's the matter with her?" thought Pierre, glancing at her. She
was sitting by her sister at the tea table, and reluctantly, without
looking at him, made some reply to Boris who sat down beside her.
After playing out a whole suit and to his partner's delight taking
five tricks, Pierre, hearing greetings and the steps of someone who
had entered the room while he was picking up his tricks, glanced again
at Natasha.

"What has happened to her?" he asked himself with still greater
surprise.

Prince Andrew was standing before her, saying something to her
with a look of tender solicitude. She, having raised her head, was
looking up at him, flushed and evidently trying to master her rapid
breathing. And the bright glow of some inner fire that had been
suppressed was again alight in her. She was completely transformed and
from a plain
girl had again become what she had been at the ball.

Prince Andrew went up to Pierre, and the latter noticed a new and

youthful expression in his friend's face.

Pierre changed places several times during the game, sitting now with his back to Natasha and now facing her, but during the whole of the six rubbers he watched her and his friend.

"Something very important is happening between them," thought Pierre, and a feeling that was both joyful and painful agitated him and made him neglect the game.

After six rubbers the general got up, saying that it was no use playing like that, and Pierre was released. Natasha on one side was talking with Sonya and Boris, and Vera with a subtle smile was saying something to Prince Andrew. Pierre went up to his friend and, asking whether they were talking secrets, sat down beside them. Vera, having noticed Prince Andrew's attentions to Natasha, decided that at a party, a real evening party, subtle allusions to the tender passion were absolutely necessary and, seizing a moment when Prince Andrew was alone, began a conversation with him about feelings in general and about her sister. With so intellectual a guest as she considered Prince Andrew to be, she felt that she had to employ her diplomatic tact.

When Pierre went up to them he noticed that Vera was being carried away by her self-satisfied talk, but that Prince Andrew seemed embarrassed, a thing that rarely happened with him.

"What do you think?" Vera was saying with an arch smile. "You are so discerning, Prince, and understand people's characters so well at a glance. What do you think of Natalie? Could she be constant in her attachments? Could she, like other women" (Vera meant herself), "love a man once for all and remain true to him forever? That is what I consider true love. What do you think, Prince?"

"I know your sister too little," replied Prince Andrew, with a sarcastic smile under which he wished to hide his embarrassment, "to be able to solve so delicate a question, and then I have noticed that the less attractive a woman is the more constant she is likely to be," he added, and looked up Pierre who was just approaching them.

"Yes, that is true, Prince. In our days," continued Vera--mentioning "our days" as people of limited intelligence are fond of doing, imagining that they have discovered and appraised the peculiarities of "our days" and that human characteristics change with the times--"in our days a girl has so much freedom that the pleasure of being courted often stifles real feeling in her. And it must be confessed that

Natalie is very susceptible." This return to the subject of Natalie caused Prince Andrew to knit his brows with discomfort: he was about to rise, but Vera continued with a still more subtle smile:

"I think no one has been more courted than she," she went on, "but till quite lately she never cared seriously for anyone. Now you know, Count," she said to Pierre, "even our dear cousin Boris, who, between ourselves, was
very far gone in the land of tenderness..."
(alluding to a map of love much in vogue at that time).

Prince Andrew frowned and remained silent.

"You are friendly with Boris, aren't you?" asked Vera.

"Yes, I know him..."

"I expect he has told you of his childish love for Natasha?"

"Oh, there was childish love?" suddenly asked Prince Andrew, blushing unexpectedly.

"Yes, you know between cousins intimacy often leads to love. Le cousinage est un dangereux voisinage.* Don't you think so?"

*"Cousinhood is a dangerous neighborhood."

"Oh, undoubtedly!" said Prince Andrew, and with sudden and unnatural liveliness he began chaffing Pierre about the need to be very careful with his fifty-year-old Moscow cousins, and in the midst of these jesting remarks he rose, taking Pierre by the arm, and drew him aside.

"Well?" asked Pierre, seeing his friend's strange animation with surprise, and noticing the glance he turned on Natasha as he rose.

"I must... I must have a talk with you," said Prince
Andrew. "You
know that pair of women's gloves?" (He referred to the Masonic gloves given to a newly initiated Brother to present to the woman he loved.) "I... but no, I will talk to you later on," and with a strange light in his eyes and restlessness in his movements, Prince Andrew approached Natasha and sat down beside her. Pierre saw how Prince Andrew asked her something and how she flushed as she replied.

But at that moment Berg came to Pierre and began insisting that he

should take part in an argument between the general and the colonel on the affairs in Spain.

Berg was satisfied and happy. The smile of pleasure never left his face. The party was very successful and quite like other parties he had seen. Everything was similar: the ladies' subtle talk, the cards, the general raising his voice at the card table, and the samovar and the tea cakes; only one thing was lacking that he had always seen at the evening parties he wished to imitate. They had not yet had a loud conversation among the men and a dispute about something important and clever. Now the general had begun such a discussion and so Berg drew Pierre to it.

CHAPTER XXII

Next day, having been invited by the count, Prince Andrew dined with the Rostovs and spent the rest of the day there.

Everyone in the house realized for whose sake Prince Andrew came, and without concealing it he tried to be with Natasha all day. Not only in the soul of the frightened yet happy and enraptured Natasha, but in the whole house, there was a feeling of awe at something important that was bound to happen. The countess looked with sad and sternly serious eyes at Prince Andrew when he talked to Natasha and timidly started some artificial conversation about trifles as soon as he looked her way. Sonya was afraid to leave Natasha and afraid of being in the way when she was with them. Natasha grew pale, in a panic of expectation, when she remained alone with him for a moment. Prince Andrew surprised her by his timidity. She felt that he wanted to say something to her but could not bring himself to do so.

In the evening, when Prince Andrew had left, the countess went up to Natasha and whispered: "Well, what?"

"Mamma! For heaven's sake don't ask me anything now! One can't talk about that," said Natasha.

But all the same that night Natasha, now agitated and now frightened, lay a long time in her mother's bed gazing straight before her. She told her how he had complimented her, how he told her he was going abroad, asked her where they were going to spend

the summer, and then how he had asked her about Boris.

"But such a... such a... never happened to me before!" she said. "Only I feel afraid in his presence. I am always afraid when I'm with him. What does that mean? Does it mean that it's the real thing? Yes? Mamma, are you asleep?"

"No, my love; I am frightened myself," answered her mother. "Now go!"

"All the same I shan't sleep. What silliness, to sleep! Mummy! Mummy! such a thing never happened to me before," she said, surprised and alarmed at the feeling she was aware of in herself. "And could we ever have thought!..."

It seemed to Natasha that even at the time she first saw Prince Andrew at Otradnoe she had fallen in love with him. It was as if she feared this strange, unexpected happiness of meeting again the very man she had then chosen (she was firmly convinced she had done so) and of finding him, as it seemed, not indifferent to her.

"And it had to happen that he should come specially to Petersburg while we are here. And it had to happen that we should meet at that ball. It is fate. Clearly it is fate that everything led up to this! Already then, directly I saw him I felt something peculiar."

"What else did he say to you? What are those verses? Read them..." said her mother, thoughtfully, referring to some verses Prince Andrew had written in Natasha's album.

"Mamma, one need not be ashamed of his being a widower?"

"Don't, Natasha! Pray to God. 'Marriages are made in heaven,'" said her mother.

"Darling Mummy, how I love you! How happy I am!" cried Natasha, shedding tears of joy and excitement and embracing her mother.

At that very time Prince Andrew was sitting with Pierre and telling him of his love for Natasha and his firm resolve to make her his wife.

That day Countess Helene had a reception at her house. The French ambassador was there, and a foreign prince of the blood who had of late become a frequent visitor of hers, and many brilliant ladies and gentlemen. Pierre, who had come downstairs, walked through the

rooms and struck everyone by his preoccupied, absent-minded, and morose air.

Since the ball he had felt the approach of a fit of nervous depression and had made desperate efforts to combat it. Since the intimacy of his wife with the royal prince, Pierre had unexpectedly been made a gentleman of the bedchamber, and from that time he had begun to feel oppressed and ashamed in court society, and dark thoughts of the vanity of all things human came to him oftener than before. At the same time the feeling he had noticed between his protegee Natasha and Prince Andrew accentuated his gloom by the contrast between his own position and his friend's. He tried equally to avoid thinking about his wife, and about Natasha and Prince Andrew; and again everything seemed to him insignificant in comparison with eternity; again the question: for what? presented itself; and he forced himself to work day and night at Masonic labors, hoping to drive away the evil spirit that threatened him. Toward midnight, after he had left the countess' apartments, he was sitting upstairs in a shabby dressing gown, copying out the original transaction of the Scottish lodge of Freemasons at a table in his low room cloudy with tobacco smoke, when someone came in. It was Prince Andrew.

"Ah, it's you!" said Pierre with a preoccupied, dissatisfied air. "And I, you see, am hard at it." He pointed to his manuscript book with that air of escaping from the ills of life with which unhappy people look at their work.

Prince Andrew, with a beaming, ecstatic expression of renewed life on his face, paused in front of Pierre and, not noticing his sad look, smiled at him with the egotism of joy.

"Well, dear heart," said he, "I wanted to tell you about it yesterday and I have come to do so today. I never experienced anything like it before. I am in love, my friend!"

Suddenly Pierre heaved a deep sigh and dumped his heavy person down on the sofa beside Prince Andrew.

"With Natasha Rostova, yes?" said he.

"Yes, yes! Who else should it be? I should never have believed it, but the feeling is stronger than I. Yesterday I tormented myself and suffered, but I would not exchange even that torment for anything in the world, I have not lived till now. At last I live, but I can't live without her! But can she love me?... I am too old for her.... Why don't you speak?"

"I? I? What did I tell you?" said Pierre suddenly, rising and beginning to pace up and down the room. "I always thought it.... That girl is such a treasure... she is a rare girl.... My dear friend, I entreat you, don't philosophize, don't doubt, marry, marry, marry.... And I am sure there will not be a happier man than you."

"But what of her?"

"She loves you."

"Don't talk rubbish..." said Prince Andrew, smiling and looking into Pierre's eyes.

"She does, I know," Pierre cried fiercely.

"But do listen," returned Prince Andrew, holding him by the arm. "Do you know the condition I am in? I must talk about it to someone."

"Well, go on, go on. I am very glad," said Pierre, and his face really changed, his brow became smooth, and he listened gladly to Prince Andrew. Prince Andrew seemed, and really was, quite a different, quite a new man. Where was his spleen, his contempt for life, his disillusionment? Pierre was the only person to whom he made up his mind to speak openly; and to him he told all that was in his soul. Now he boldly and lightly made plans for an extended future, said he could not sacrifice his own happiness to his father's caprice, and spoke of how he would either make his father consent to this marriage and love her, or would do without his consent; then he marveled at the feeling that had mastered him as at something strange, apart from and independent of himself.

"I should not have believed anyone who told me that I was capable of such love," said Prince Andrew. "It is not at all the same feeling that I knew in the past. The whole world is now for me divided into two halves: one half is she, and there all is joy, hope, light: the other half is everything where she is not, and there is all gloom and darkness...."

"Darkness and gloom," reiterated Pierre: "yes, yes, I understand that."

"I cannot help loving the light, it is not my fault. And I am very happy! You understand me? I know you are glad for my sake."

"Yes, yes," Pierre assented, looking at his friend with a touched

and sad expression in his eyes. The brighter Prince Andrew's lot appeared to him, the gloomier seemed his own.

CHAPTER XXIII

Prince Andrew needed his father's consent to his marriage, and to obtain this he started for the country next day.

His father received his son's communication with external composure, but inward wrath. He could not comprehend how anyone could wish to alter his life or introduce anything new into it, when his own life was already ending. "If only they would let me end my days as I want to," thought the old man, "then they might do as they please." With his son, however, he employed the diplomacy he reserved for important occasions and, adopting a quiet tone, discussed the whole matter.

In the first place the marriage was not a brilliant one as regards birth, wealth, or rank. Secondly, Prince Andrew was no longer as young as he had been and his health was poor (the old man laid special stress on this), while she was very young. Thirdly, he had a son whom it would be a pity to entrust to a chit of a girl. "Fourthly and finally," the father said, looking ironically at his son, "I beg you to put it off for a year: go abroad, take a cure, look out as you wanted to for a German tutor for Prince Nicholas. Then if your love or passion or obstinacy--as you please--is still as great, marry! And that's my last word on it. Mind, the last..." concluded the prince, in a tone which showed that nothing would make him alter his decision.

Prince Andrew saw clearly that the old man hoped that his feelings, or his fiancee's, would not stand a year's test, or that he (the old prince himself) would die before then, and he decided to conform to his father's wish--to propose, and postpone the wedding for a year.

Three weeks after the last evening he had spent with the Rostovs, Prince Andrew returned to Petersburg.

Next day after her talk with her mother Natasha expected Bolkonski

all day, but he did not come. On the second and third day it was the same. Pierre did not come either and Natasha, not knowing that Prince
Andrew had gone to see his father, could not explain his absence to herself.

Three weeks passed in this way. Natasha had no desire to go out anywhere and wandered from room to room like a shadow, idle and listless; she wept secretly at night and did not go to her mother in the evenings. She blushed continually and was irritable. It seemed to her that everybody knew about her disappointment and was laughing at her and pitying her. Strong as was her inward grief, this wound to her vanity intensified her misery.

Once she came to her mother, tried to say something, and suddenly began to cry. Her tears were those of an offended child who does not know why it is being punished.

The countess began to soothe Natasha, who after first listening to her mother's words, suddenly interrupted her:

"Leave off, Mamma! I don't think, and don't want to think about it! He just came and then left off, left off..."

Her voice trembled, and she again nearly cried, but recovered and went on quietly:

"And
I don't at all want to get married. And I am afraid of him; I have now become quite calm, quite calm."

The day after this conversation Natasha put on the old dress which she knew had the peculiar property of conducing to cheerfulness in the mornings, and that day she returned to the old way of life which she had abandoned since the ball. Having finished her morning tea she went to the ballroom, which she particularly liked for its loud resonance, and began singing her solfeggio. When she had finished her first exercise she stood still in the middle of the room and sang a musical phrase that particularly pleased her. She listened joyfully (as though she had not expected it) to the charm of the notes reverberating, filling the whole empty ballroom, and slowly dying away; and all at once she felt cheerful. "What's the good of making so much of it? Things are nice as it is," she said to herself, and she began walking up and down the room, not stepping simply on the resounding
parquet but treading with each step from the heel to the toe (she had on a new and favorite pair of shoes) and listening to the regular tap of the heel and creak of the toe as gladly as she had to

the sounds of her own voice. Passing a mirror she glanced into it. "There, that's me!" the expression of her face seemed to say as she caught sight of herself. "Well, and very nice too! I need nobody."

A footman wanted to come in to clear away something in the room but she would not let him, and having closed the door behind him continued her walk. That morning she had returned to her favorite mood--love of, and delight in, herself. "How charming that Natasha is!" she said again, speaking as some third, collective, male person. "Pretty, a good voice, young, and in nobody's way if only they leave her in peace." But however much they left her in peace she could not now be at peace, and immediately felt this.

In the hall the porch door opened, and someone asked, "At home?" and then footsteps were heard. Natasha was looking at the mirror, but did not see herself. She listened to the sounds in the hall. When she saw herself, her face was pale. It was he. She knew this for certain, though she hardly heard his voice through the closed doors.

Pale and agitated, Natasha ran into the drawing room.

"Mamma! Bolkonski has come!" she said. "Mamma, it is awful, it is unbearable! I don't want... to be tormented? What am I to do?..."

Before the countess could answer, Prince Andrew entered the room with an agitated and serious face. As soon as he saw Natasha his face brightened. He kissed the countess' hand and Natasha's, and sat down beside the sofa.

"It is long since we had the pleasure..." began the countess, but Prince Andrew interrupted her by answering her intended question, obviously in haste to say what he had to.

"I have not been to see all this time because I have been at my father's. I had to talk over a very important matter with him. I only got back last night," he said glancing at Natasha; "I want to have a talk with you, Countess," he added after a moment's pause.

The countess lowered her eyes, sighing deeply.

"I am at your disposal," she murmured.

Natasha knew that she ought to go away, but was unable to do so: something gripped her throat, and regardless of manners she stared straight at Prince Andrew with wide-open eyes.

"At once? This instant!... No, it can't be!" she thought.

Again he glanced at her, and that glance convinced her that she was not mistaken. Yes, at once, that very instant, her fate would be decided.

"Go, Natasha! I will call you," said the countess in a whisper.

Natasha glanced with frightened imploring eyes at Prince Andrew and at her mother and went out.

"I have come, Countess, to ask for your daughter's hand," said Prince Andrew.

The countess' face flushed hotly, but she said nothing.

"Your offer..." she began at last sedately. He remained silent, looking into her eyes. "Your offer..." (she grew confused) "is agreeable
to us, and I accept your offer. I am glad. And my husband... I hope... but it will depend on her...."

"I will speak to her when I have your consent.... Do you give it to me?" said Prince Andrew.

"Yes," replied the countess. She held out her hand to him, and with a mixed feeling of estrangement and tenderness pressed her lips to his forehead as he stooped to kiss her hand. She wished to love him as a son, but felt that to her he was a stranger and a terrifying man. "I am sure my husband will consent," said the countess, "but your father..."

"My father, to whom I have told my plans, has made it an express condition of his consent that the wedding is not to take place for a year. And I wished to tell you of that," said Prince Andrew.

"It is true that Natasha is still young, but--so long as that?..."

"It is unavoidable," said Prince Andrew with a sigh.

"I will send her to you," said the countess, and left the room.

"Lord have mercy upon us!" she repeated while seeking her daughter.

Sonya
said that Natasha was in her bedroom. Natasha was sitting on the bed, pale and dry eyed, and was gazing at the icons and whispering something as she rapidly crossed herself. Seeing her mother she jumped

up and flew to her.

"Well, Mamma?... Well?..."

"Go, go to him. He is asking for your hand," said the countess, coldly it seemed to Natasha. "Go... go," said the mother, sadly and reproachfully, with a deep sigh, as her daughter ran away.

Natasha never remembered how she entered the drawing room. When she came in and saw him she paused. "Is it possible that this stranger has now become everything to me?" she asked herself, and immediately answered, "Yes, everything! He alone is now dearer to me than everything in the world." Prince Andrew came up to her with downcast eyes.

"I have loved you from the very first moment I saw you. May I hope?"

He looked at her and was struck by the serious impassioned expression of her face. Her face said: "Why ask? Why doubt what you cannot
but know? Why speak, when words cannot express what one feels?"

She drew near to him and stopped. He took her hand and kissed it.

"Do you love me?"

"Yes, yes!" Natasha murmured as if in vexation. Then she sighed loudly and, catching her breath more and more quickly, began to sob.

"What is it? What's the matter?"

"Oh, I am so happy!" she replied, smiled through her tears, bent over closer to him, paused for an instant as if asking herself whether she might, and then kissed him.

Prince Andrew held her hands, looked into her eyes, and did not find in his heart his former love for her. Something in him had suddenly changed; there was no longer the former poetic and mystic charm of desire, but there was pity for her feminine and childish weakness, fear at her devotion and trustfulness, and an oppressive yet joyful sense of the duty that now bound him to her forever. The present feeling, though not so bright and poetic as the former, was stronger and more serious.

"Did your mother tell
you that it cannot be for a year?" asked
Prince Andrew, still looking into her eyes.

"Is it possible that I--the 'chit of a girl,' as everybody called me," thought Natasha--"is it possible that I am now to be the wife and the equal of this strange, dear, clever man whom even my father looks up to? Can it be true? Can it be true that there can be no more playing with life, that now I am grown up, that on me now lies a responsibility for my every word and deed? Yes, but what did he ask me?"

"No," she replied, but she had not understood his question.

"Forgive me!" he said. "But you are so young, and I have already been through so much in life. I am afraid for you, you do not yet know yourself."

Natasha listened with concentrated attention, trying but failing to take in the meaning of his words.

"Hard as this year which delays my happiness will be," continued Prince Andrew, "it will give you time to be sure of yourself. I ask you to make me happy in a year, but you are free: our engagement shall
remain a secret, and should you find that you do not love me, or should you come to love..." said Prince Andrew with an unnatural smile.

"Why do you say that?" Natasha interrupted him. "You know that from the very day you first came to Otradnoe I have loved you," she cried, quite convinced that she spoke the truth.

"In a year you will learn to know yourself...."

"A whole year!" Natasha repeated suddenly, only now realizing that the marriage was to be postponed for a year. "But why a year? Why a year?..."

Prince Andrew began to explain to her the reasons for this delay. Natasha did not hear him.

"And can't it be helped?" she asked. Prince Andrew did not reply, but his face expressed the impossibility of altering that decision.

"It's awful! Oh, it's awful! awful!" Natasha suddenly cried, and again burst into sobs. "I shall die, waiting a year: it's impossible, it's awful!" She looked into her lover's face and saw in it a look of commiseration and perplexity.

"No, no!

I'll do anything!" she said, suddenly checking her tears.
"I am so happy."

The father and mother came into the room and gave the betrothed couple their blessing.

From that day Prince Andrew began to frequent the Rostovs' as Natasha's affianced lover.

CHAPTER XXIV

No betrothal ceremony took place and Natasha's engagement to Bolkonski was not announced; Prince Andrew insisted on that. He said that as he was responsible for the delay he ought to bear the whole burden of it; that he had given his word and bound himself forever, but that he did not wish to bind Natasha and gave her perfect freedom. If after six months she felt that she did not love him she would have full right to reject him. Naturally neither Natasha nor her parents wished to hear of this, but Prince Andrew was firm. He came every day to the Rostovs', but did not behave to Natasha as an affianced lover: he did not use the familiar thou, but said you to her, and kissed only her hand. After their engagement, quite different,
intimate, and natural relations sprang up between them.
It was as if they had not known each other till now. Both liked to recall how they had regarded each other when as yet they were nothing to one another; they felt themselves now quite different beings: then they were artificial, now natural and sincere. At first the family felt some constraint in intercourse with Prince Andrew; he seemed a man from another world, and for a long time Natasha trained the family to get used to him, proudly assuring them all that he only appeared to be different, but was really just like all of them, and that she was not afraid of him and no one else ought to be. After a few days they grew accustomed to him, and without restraint in his presence pursued their usual way of life, in which he took his part. He could talk about rural economy with the count, fashions with the countess and Natasha, and about albums and fancywork with Sonya. Sometimes the household both among themselves and in his presence
expressed their wonder at how it had all happened, and at the evident omens there had been of it: Prince Andrew's coming to Otradnoe and their coming to Petersburg, and the likeness between Natasha and Prince Andrew which her nurse had noticed on his first visit, and Andrew's encounter with Nicholas in 1805, and many other incidents

betokening that it had to be.

In the house that poetic dullness and quiet reigned which always accompanies the presence of a betrothed couple. Often when all sitting together everyone kept silent. Sometimes the others would get up and go away and the couple, left alone, still remained silent. They rarely spoke of their future life. Prince Andrew was afraid and ashamed to speak of it. Natasha shared this as she did all his feelings, which she constantly divined. Once she began questioning him about his son. Prince Andrew blushed, as he often did now--Natasha particularly liked it in him--and said that his son would not live with them.

"Why not?"
asked Natasha in a frightened tone.

"I cannot take him away from his grandfather, and besides..."

"How I should have loved him!" said Natasha, immediately guessing his thought; "but I know you wish to avoid any pretext for finding fault with us."

Sometimes the old count would come up, kiss Prince Andrew, and ask his advice about Petya's education or Nicholas' service. The old countess sighed as she looked at them; Sonya was always getting frightened lest she should be in the way and tried to find excuses for leaving them alone, even when they did not wish it. When Prince Andrew spoke (he could tell a story very well), Natasha listened to him with pride; when she spoke she noticed with fear and joy that he gazed attentively and scrutinizingly at her. She asked herself in perplexity: "What does he look for in me? He is trying to discover something by looking at me! What if what he seeks in me is not there?" Sometimes she fell into one of the mad, merry moods characteristic of her, and
then she particularly loved to hear and see how Prince Andrew laughed. He seldom laughed, but when he did he abandoned himself entirely to his laughter, and after such a laugh she always felt nearer to him. Natasha would have been completely happy if the thought of the separation awaiting her and drawing near had not terrified her, just as the mere thought of it made him turn pale and cold.

On the eve of his departure from Petersburg Prince Andrew brought with him Pierre, who had not been to the Rostovs' once since the ball. Pierre seemed disconcerted and embarrassed. He was talking to the countess, and Natasha sat down beside a little chess table with Sonya, thereby inviting Prince Andrew to come too. He did so.

"You have known Bezukhov a long time?" he asked. "Do you like him?"

"Yes, he's a dear, but very absurd."

And as usual when speaking of Pierre, she began to tell anecdotes of his absent-mindedness, some of which had even been invented about him.

"Do you know I have entrusted him with our secret? I have known him from childhood. He has a heart of gold. I beg you, Natalie," Prince Andrew said with sudden seriousness--"I am going away and heaven knows what may happen. You may cease to... all right, I know I am not to say that. Only this, then: whatever may happen to you when I am not here..."

"What can happen?"

"Whatever trouble may come," Prince Andrew continued, "I beg you, Mademoiselle Sophie, whatever may happen, to turn to him alone for advice and help! He is a most absent-minded and absurd fellow, but he has a heart of gold."

Neither her father, nor her mother, nor Sonya, nor Prince Andrew himself could have foreseen how the separation from her lover would act on Natasha. Flushed and agitated she went about the house all that day, dry-eyed, occupied with most trivial matters as if not understanding what awaited her. She did not even cry when, on taking leave, he kissed her hand for the last time. "Don't go!" she said in a tone that made him wonder whether he really ought not to stay and which he remembered long afterwards. Nor did she cry when he was gone; but for several days she sat in her room dry-eyed, taking no interest in anything and only saying now and then, "Oh, why did he go away?"

But a fortnight after his departure, to the surprise of those around her, she recovered from her mental sickness just as suddenly and became her old self again, but with a change in her moral physiognomy, as a child gets up after a long illness with a changed expression of face.

CHAPTER XXV

During that year after his son's departure, Prince Nicholas Bolkonski's health and temper became much worse. He grew still more irritable, and it was Princess Mary who generally bore the brunt of his frequent fits of unprovoked anger. He seemed carefully to seek out her tender spots so as to torture her mentally as harshly as possible. Princess Mary had two passions and consequently two joys--her nephew, little Nicholas, and religion--and these were the favorite subjects of the prince's attacks and ridicule. Whatever was spoken of he would bring round to the superstitiousness of old maids, or the petting and spoiling of children. "You want to make him"--little Nicholas--"into an old maid like yourself! A pity! Prince Andrew wants a son and not an old maid," he would say. Or, turning to Mademoiselle Bourienne, he would ask her in Princess Mary's presence how she liked our village priests and icons and would joke about them.

He continually hurt Princess Mary's feelings and tormented her, but it cost her no effort to forgive him. Could he be to blame toward her, or could her father, whom she knew loved her in spite of it all, be unjust? And what is justice? The princess never thought of that proud word "justice." All the complex laws of man centered for her in one clear and simple law--the law of love and self-sacrifice taught us by Him who lovingly suffered for mankind though He Himself was God. What had she to do with the justice or injustice of other people? She had to endure and love, and that she did.

During the winter Prince Andrew had come to Bald Hills and had been gay, gentle, and more affectionate than Princess Mary had known him for a long time past. She felt that something had happened to him, but he said nothing to her about his love. Before he left he had a long talk with his father about something, and Princess Mary noticed that before his departure they were dissatisfied with one another.

Soon after Prince Andrew had gone, Princess Mary wrote to her friend Julie Karagina in Petersburg, whom she had dreamed (as all girls dream) of marrying to her brother, and who was at that time in mourning for her own brother, killed in Turkey.

Sorrow, it seems, is our common lot, my dear, tender friend Julie.

Your loss is so terrible that I can only explain it to myself as a special providence of God who, loving you, wishes to try you and your excellent mother. Oh, my friend! Religion, and religion alone, can--I will not say comfort us--but save us from despair. Religion alone can explain to us what without its help man cannot comprehend:

why, for what cause, kind and noble beings able to find happiness in life--not merely harming no one but necessary to the happiness of others--are called away to God, while cruel, useless, harmful persons, or such as are a burden to themselves and to others, are left living. The first death I saw, and one I shall never forget--that of my dear sister-in-law--left that impression on me. Just as you ask destiny why your splendid brother had to die, so I asked why that angel Lise, who not only never wronged anyone, but in whose soul there were never any unkind thoughts, had to die. And what do you think, dear friend? Five years have passed since then, and already I, with my petty understanding, begin to see clearly why she had to die, and in what way that death was but an expression of the infinite goodness of the Creator, whose every action, though generally incomprehensible
to us, is but a manifestation of His infinite love
for His creatures. Perhaps, I often think, she was too angelically innocent to have the strength to perform all a mother's duties. As a young wife she was irreproachable; perhaps she could not have been so as a mother. As it is, not only has she left us, and particularly Prince Andrew, with the purest regrets and memories, but probably she will there receive a place I dare not hope for myself. But not to speak of her alone, that early and terrible death has had the most beneficent influence on me and on my brother in spite of all our grief. Then, at the moment of our loss, these thoughts could not occur to me; I should then have dismissed them with horror, but now they are very clear and certain. I write all this to you, dear friend, only to convince you of the Gospel truth which has become for me a principle of life: not a single hair of our heads will fall without His will. And His will is governed only by infinite
love for us, and
so whatever befalls us is for our good.

You ask whether we shall spend next winter in Moscow. In spite of my wish to see you, I do not think so and do not want to do so. You will be surprised to hear that the reason for this is Buonaparte! The case is this: my father's health is growing noticeably worse, he cannot stand any contradiction and is becoming irritable. This irritability is, as you know, chiefly directed to political questions. He cannot endure the notion that Buonaparte is negotiating on equal terms with all the sovereigns of Europe and particularly with our own, the grandson of the Great Catherine! As you know, I am quite indifferent to politics, but from my father's remarks and his talks with Michael Ivanovich I know all that goes on in the world and especially about the honors conferred on Buonaparte, who only at Bald Hills in the whole world, it seems, is not accepted as a great man, still less as Emperor of France. And my father cannot stand this. It

seems to me that it is chiefly because of his political views that my father is reluctant to speak of going to Moscow; for he foresees the encounters that would result from his way of expressing his views regardless of anybody. All the benefit he might derive from a course of treatment he would lose as a result of the disputes about Buonaparte which would be inevitable. In any case it will be decided very shortly.

Our family life goes on in the old way except for my brother Andrew's absence. He, as I wrote you before, has changed very much of late. After his sorrow he only this year quite recovered his spirits. He has again become as I used to know him when a child: kind, affectionate, with that heart of gold to which I know no equal. He has realized, it seems to me, that life is not over for him. But together with this mental change he has grown physically much weaker. He has become thinner and more nervous. I am anxious about him and glad he is taking this trip abroad which the doctors recommended long ago. I hope it will cure him. You write that in Petersburg he is spoken of as one of the most active, cultivated, and capable of the young men. Forgive my vanity as a relation, but I never doubted it. The good he has done to everybody here, from his peasants up to the gentry, is incalculable. On his arrival in Petersburg he received only his due. I always wonder at the way rumors fly from Petersburg to Moscow, especially such false ones as that you write about--I mean the report of my brother's betrothal to the little Rostova. I do not think my brother will ever marry again, and certainly not her; and this is why: first, I know that though he rarely speaks about the wife he has lost, the grief of that loss has gone too deep in his heart for him ever to decide to give her a successor and our little angel a stepmother. Secondly because, as far as I know, that girl is not the kind of girl who could please Prince Andrew. I do not think he would choose her for a wife, and frankly I do not wish it. But I am running on too long and am at the end of my second sheet. Good-by, my dear friend. May God keep you in His holy and mighty care. My dear friend, Mademoiselle Bourienne, sends you kisses.

MARY

CHAPTER XXVI

In the middle of the summer Princess Mary received an unexpected

letter from Prince Andrew in Switzerland in which he gave her strange and surprising news. He informed her of his engagement to Natasha Rostova. The whole letter breathed loving rapture for his betrothed and tender and confiding affection for his sister. He wrote that he had never loved as he did now and that only now did he understand and know what life was. He asked his sister to forgive him for not having told her of his resolve when he had last visited Bald Hills, though he had spoken of it to his father. He had not done so for fear Princess Mary should ask her father to give his consent, irritating him and having to bear the brunt of his displeasure without attaining her object. "Besides," he wrote, "the matter was not then so definitely settled as it is now. My father then insisted on a delay of a year and now already six months, half of that period, have passed, and my resolution is firmer than ever. If the doctors did not keep me here at the spas I should be back in Russia, but as it is I have to postpone my return for three months. You know me and my relations with Father. I want nothing from him. I have been and always shall be independent; but to go against his will and arouse his anger, now that he may perhaps remain with us such a short time, would destroy half my happiness. I am now writing to him about the same question, and beg you to choose a good moment to hand him the letter and to let me know how he looks at the whole matter and whether there is hope that he may consent to reduce the term by four months."

After long hesitations, doubts, and prayers, Princess Mary gave the letter to her father. The next day the old prince said to her quietly:

"Write and tell your brother to wait till I am dead.... It won't be long--I shall soon set him free."

The princess was about to reply, but her father would not let her speak and, raising his voice more and more, cried:

"Marry, marry, my boy!... A good family!... Clever people, eh? Rich, eh? Yes, a nice stepmother little Nicholas will have! Write and tell him that he may marry tomorrow if he likes. She will be little Nicholas' stepmother and I'll marry Bourienne!... Ha, ha, ha! He mustn't be without a stepmother either! Only one thing, no more women are wanted in my house--let him marry and live by himself. Perhaps you will go and live with him too?" he added, turning to Princess Mary. "Go in heavens name! Go out into the frost... the frost... the frost!

After this outburst the prince did not speak any more about the

matter. But repressed vexation at his son's poor-spirited behavior found expression in his treatment of his daughter. To his former pretexts for irony a fresh one was now added--allusions to stepmothers and amiabilities to Mademoiselle Bourienne.

"Why shouldn't I marry her?" he asked his daughter. "She'll make a splendid princess!"

And latterly, to her surprise and bewilderment, Princess Mary noticed that her father was really associating more and more with the Frenchwoman. She wrote to Prince Andrew about the reception of his letter, but comforted him with hopes of reconciling their father to the idea.

Little Nicholas and his education, her brother Andrew, and religion were Princess Mary's joys and consolations; but besides that, since everyone must have personal hopes, Princess Mary in the profoundest depths of her heart had a hidden dream and hope that supplied the chief consolation of her life. This comforting dream and hope were given her by God's folk--the half-witted and other pilgrims who visited her without the prince's knowledge. The longer she lived, the more experience and observation she had of life, the greater was her wonder at the short-sightedness of men who seek enjoyment and happiness here on earth: toiling, suffering, struggling, and harming one another, to obtain that impossible, visionary, sinful happiness. Prince Andrew had loved his wife, she died, but that was not enough: he wanted to bind his happiness to another woman. Her father objected to this because he wanted a more distinguished and wealthier match for Andrew. And they all struggled and suffered and tormented one another and injured their souls, their eternal souls, for the attainment of benefits which endure but for an instant. Not only do we know this ourselves, but Christ, the Son of God, came down to earth and told us that this life is but for a moment and is a probation; yet we cling to it and think to find happiness in it. "How is it that no one realizes this?" thought Princess Mary. "No one except these despised God's folk who, wallet on back, come to me by the back door, afraid of being seen by the prince, not for fear of ill-usage by him but for fear of causing him to sin. To leave family, home, and all the cares of worldly welfare, in order without clinging to anything to wander in hempen rags from place to place under an assumed name, doing no one any harm but praying for all-for those who drive one away as well as for those who protect one: higher than that life and truth there is no life or truth!"

There was one pilgrim, a quiet pockmarked little woman of fifty

called Theodosia, who for over thirty years had gone about barefoot and worn heavy chains. Princess Mary was particularly fond of her. Once, when in a room with a lamp dimly lit before the icon Theodosia was talking of her life, the thought that Theodosia alone had found the true path of life suddenly came to Princess Mary with such force that she resolved to become a pilgrim herself. When Theodosia had gone to sleep Princess Mary thought about this for a long time, and at last made up her mind that, strange as it might seem, she must go on a pilgrimage. She disclosed this thought to no one but to her confessor, Father Akinfi, the monk, and he approved of her intention. Under guise of a present for the pilgrims, Princess Mary prepared a pilgrim's complete costume for herself: a coarse smock, bast shoes, a rough coat, and a black kerchief. Often, approaching the chest of drawers containing this secret treasure, Princess Mary paused, uncertain whether the time had not already come to put her project into execution.

Often, listening to the pilgrims' tales, she was so stimulated by their simple speech, mechanical to them but to her so full of deep meaning, that several times she was on the point of abandoning everything and running away from home. In imagination she already pictured herself by Theodosia's side, dressed in coarse rags, walking with a staff, a wallet on her back, along the dusty road, directing her wanderings from one saint's shrine to another, free from envy, earthly love, or desire, and reaching at last the place where there is no more sorrow or sighing, but eternal joy and bliss.

"I shall come to a place and pray there, and before having time to get used to it or getting to love it, I shall go farther. I will go on till my legs fail, and I'll lie down and die somewhere, and shall at last reach that eternal, quiet haven, where there is neither sorrow nor sighing..." thought Princess Mary.

But afterwards, when she saw her father and especially little Koko (Nicholas), her resolve weakened. She wept quietly, and felt that she was a sinner who loved her father and little nephew more than God.

CHAPTER I

The Bible legend tells us that the absence of labor--idleness--was a condition of the first man's blessedness before the Fall. Fallen man has retained a love of idleness, but the curse weighs on the race not only because we have to seek our bread in the sweat of our brows, but because our moral nature is such that we cannot be both idle and at ease. An inner voice tells us we are in the wrong if we are idle. If man could find a state in which he felt that though idle he was fulfilling his duty, he would have found one of the conditions of man's primitive blessedness. And such a state of obligatory and irreproachable idleness is the lot of a whole class-the military. The chief attraction of military service has consisted and will consist in this compulsory and irreproachable idleness.

Nicholas Rostov experienced this blissful condition to the full when, after 1807, he continued to serve in the Pavlograd regiment, in which he already commanded the squadron he had taken over from Denisov.

Rostov had become a bluff, good-natured fellow, whom his Moscow acquaintances would have considered rather bad form, but who was liked and respected by his comrades, subordinates, and superiors, and was well contented with his life. Of late, in 1809, he found in letters from home more frequent complaints from his mother that their affairs were falling into greater and greater disorder, and that it was time for him to come back to gladden and comfort his old parents.

Reading these letters, Nicholas felt a dread of their wanting to take him away from surroundings in which, protected from all the entanglements of life, he was living so calmly and quietly. He felt that sooner or later he would have to re-enter that whirlpool of life, with its embarrassments and affairs to be straightened out, its accounts with stewards, quarrels, and intrigues, its ties, society, and with Sonya's love and his promise to her. It was all dreadfully difficult and complicated; and he replied to his mother in cold, formal letters in French, beginning: "My dear Mamma," and ending: "Your obedient son," which said nothing of when he would return. In 1810 he received letters from his parents, in which they told him of Natasha's engagement to Bolkonski, and that the wedding would be in a year's time because the old prince made difficulties. This letter grieved and mortified Nicholas. In the first place he was sorry that Natasha, for whom he cared more than for anyone else in the family,

should be lost to the home; and secondly, from his hussar point of view, he regretted not to have been there to show that fellow Bolkonski that connection with him was no such great honor after all, and that if he loved Natasha he might dispense with permission from his dotard father. For a moment he hesitated whether he should not apply for leave in order to see Natasha before she was married, but then came the maneuvers, and considerations about Sonya and about the confusion of their affairs, and Nicholas again put it off. But in the spring of that year, he received a letter from his mother, written without his father's knowledge, and that letter persuaded him to return. She wrote that if he did not come and take matters in hand, their whole property would be sold by auction and they would all have to go begging. The count was so weak, and trusted Mitenka so much,
and was so good-natured, that everybody
took advantage of him and things were going from bad to worse. "For God's sake, I implore you, come at once if you do not wish to make me and the whole family wretched," wrote the countess.

This letter touched Nicholas. He had that common sense of a matter-of-fact man which showed him what he ought to do.

The right thing now was, if not to retire from the service, at any rate to go home on leave. Why he had to go he did not know; but after his after-dinner nap he gave orders to saddle Mars, an extremely vicious gray stallion that had not been ridden for a long time, and when he returned with the horse all in a lather, he informed Lavrushka (Denisov's servant who had remained with him) and his comrades who turned up in the evening that he was applying for leave and was going home. Difficult and strange as it was for him to reflect that he would go away without having heard from the staff--and this interested him extremely--whether he was promoted
to a captaincy or would receive
the Order of St. Anne for the last maneuvers; strange as it was to think that he would go away without having sold his three roans to the Polish Count Golukhovski, who was bargaining for the horses Rostov had betted he would sell for two thousand rubles; incomprehensible as it seemed that the ball the hussars were giving in honor of the Polish Mademoiselle Przazdziecka (out of rivalry to the Uhlans who had given one in honor of their Polish Mademoiselle Borzozowska) would take place without him--he knew he must go away from this good, bright world to somewhere where everything was stupid and confused. A week later he obtained his leave. His hussar comrades--not only those of his own regiment, but the whole brigade--gave Rostov a dinner to which the subscription was fifteen rubles a head, and at which there were two bands and two choirs of singers. Rostov danced the Trepak with Major Basov; the tipsy officers tossed, embraced, and dropped Rostov; the

soldiers of the third squadron tossed him too, and shouted "hurrah!" and then they put him in his sleigh and escorted him as far as the first post station.

During the first half of the journey--from Kremenchug to Kiev--all Rostov's thoughts, as is usual in such cases, were behind him, with the squadron; but when he had gone more than halfway he began to forget his three roans and Dozhoyveyko, his quartermaster, and to wonder anxiously how things would be at Otradnoe and what he would find there. Thoughts of home grew stronger the nearer he approached it--far stronger, as though this feeling of his was subject to the law by which the force of attraction is in inverse proportion to the square of the distance. At the last post station before Otradnoe he gave the driver a three-ruble tip, and on arriving he ran breathlessly, like a boy, up the steps of his home.

After the rapture of meeting, and after that odd feeling of unsatisfied expectation--the feeling that "everything is just the same,
so why did I hurry?"--Nicholas began to settle down in his old home world. His father and mother were much the same, only a little older. What was new in them was a certain uneasiness and occasional discord, which there used not to be, and which, as Nicholas soon found out, was due to the bad state of their affairs. Sonya was nearly twenty; she had stopped growing prettier and promised nothing more than she was already, but that was enough. She exhaled happiness and love from the time Nicholas returned, and the faithful, unalterable love of this girl had a gladdening effect on him. Petya and Natasha surprised Nicholas most. Petya was a big handsome boy of thirteen, merry, witty, and mischievous, with a voice that was already breaking. As for Natasha, for a long while Nicholas wondered and laughed whenever he looked at her.

"You're not the same at all," he said.

"How? Am I uglier?"

"On the contrary, but what dignity? A princess!" he whispered to her.

"Yes, yes, yes!" cried Natasha,
joyfully.

She told him about her romance with Prince Andrew and of his visit to Otradnoe and showed him his last letter.

"Well, are you glad?" Natasha asked. "I am so tranquil and happy now."

"Very glad," answered Nicholas. "He is an excellent fellow.... And are you very much in love?"

"How shall I put it?" replied Natasha. "I was in love with Boris, with my teacher, and with Denisov, but this is quite different. I feel at peace and settled. I know that no better man than he exists, and I am calm and contented now. Not at all as before."

Nicholas expressed his disapproval of the postponement of the marriage for a year; but Natasha attacked her brother with exasperation, proving to him that it could not be otherwise, and that it would be a bad thing to enter a family against the father's will, and that she herself wished it so.

"You don't at all understand," she said.

Nicholas was silent and agreed with her.

Her brother often wondered as he looked at her. She did not seem at
all like a girl in love and parted from her affianced husband.
She was even-tempered and calm and quite as cheerful as of old. This amazed Nicholas and even made him regard Bolkonski's courtship skeptically. He could not believe that her fate was sealed, especially as he had not seen her with Prince Andrew. It always seemed to him that there was something not quite right about this intended marriage.

"Why this delay? Why no betrothal?" he thought. Once, when he had touched on this topic with his mother, he discovered, to his surprise and somewhat to his satisfaction, that in the depth of her soul she too had doubts about this marriage.

"You see he writes," said she, showing her son a letter of Prince Andrew's, with that latent grudge a mother always has in regard to a daughter's future married happiness, "he writes that he won't come before December. What can be keeping him? Illness, probably! His health is very delicate. Don't tell Natasha. And don't attach importance to her being
so bright: that's because she's living through
the last days of her girlhood, but I know what she is like every time we receive a letter from him! However, God grant that everything turns out well!" (She always ended with these words.) "He is an excellent man!"

CHAPTER II

After reaching home Nicholas was at first serious and even dull. He was worried by the impending necessity of interfering in the stupid business matters for which his mother had called him home. To throw off this burden as quickly as possible, on the third day after his arrival he went, angry and scowling and without answering questions as to where he was going, to Mitenka's lodge and demanded an account of everything. But what an account of everything might be Nicholas knew even less than the frightened and bewildered Mitenka. The conversation and the examination of the accounts with Mitenka did not last long. The village elder, a peasant delegate, and the village clerk, who were waiting in the passage, heard with fear and delight first the young count's voice roaring and snapping and rising louder and louder, and then words of abuse, dreadful words, ejaculated one after the other.

"Robber!... Ungrateful wretch!... I'll hack the dog to pieces! I'm not my father!... Robbing us!..." and so on.

Then with no less fear and delight they saw how the young count, red in the face and with bloodshot eyes, dragged Mitenka out by the scruff of the neck and applied his foot and knee to his behind with great agility at convenient moments between the words, shouting, "Be off! Never let me see your face here again, you villain!"

Mitenka flew headlong down the six steps and ran away into the shrubbery. (This shrubbery was a well-known haven of refuge for culprits at Otradnoe. Mitenka himself, returning tipsy from the town, used to hide there, and many of the residents at Otradnoe, hiding from Mitenka, knew of its protective qualities.)

Mitenka's wife and sisters-in-law thrust their heads and frightened faces out of the door of a room where a bright samovar was boiling and where the steward's high bedstead stood with its patchwork quilt.

The young count paid no heed to them, but, breathing hard, passed by with resolute strides and went into the house.

The countess, who heard at once from the maids what had happened at the lodge, was calmed by the thought that now their affairs would certainly improve, but on the other hand felt anxious as to the effect this excitement might have on her son. She went several times to his door on tiptoe and listened, as he lighted one pipe after another.

Next day the old count called his son aside and, with an embarrassed smile, said to him:

"But you know, my dear boy, it's a pity you got excited! Mitenka has told me all about it."

"I knew," thought Nicholas, "that I should never understand anything in this crazy world."

"You were angry that he had not entered those 700 rubles. But they were carried forward--and you did not look at the other page."

"Papa,
he is a blackguard and a thief! I know he is! And what I have done, I have done; but, if you like, I won't speak to him again."

"No, my dear boy" (the count, too, felt embarrassed. He knew he had mismanaged his wife's property and was to blame toward his children, but he did not know how to remedy it). "No, I beg you to attend to the business. I am old. I..."

"No, Papa. Forgive me if I have caused you unpleasantness. I understand it all less than you do."

"Devil take all these peasants, and money matters, and carryings forward from page to page," he thought. "I used to understand what a 'corner' and the stakes at cards meant, but carrying forward to another page I don't understand at all," said he to himself, and after that he did not meddle in business affairs. But once the countess called her son and informed him that she had a promissory note from Anna Mikhaylovna for two thousand rubles, and asked him what he thought of doing with it.

"This," answered Nicholas. "You
say it rests with me. Well, I
don't like Anna Mikhaylovna and I don't like Boris, but they were our friends and poor. Well then, this!" and he tore up the note, and by so doing caused the old countess to weep tears of joy. After that, young Rostov took no further part in any business affairs, but devoted himself with passionate enthusiasm to what was to him a new pursuit--the chase--for which his father kept a large establishment.

CHAPTER III

The weather was already growing wintry and morning frosts congealed an earth saturated by autumn rains. The verdure had thickened and its bright green stood out sharply against the brownish strips of winter rye trodden down by the cattle, and against the pale-yellow stubble of the spring buckwheat. The wooded ravines and the copses, which at the end of August had still been green islands amid black fields and stubble, had become golden and bright-red islands amid the green winter rye. The hares had already half changed their summer coats, the fox cubs were beginning to scatter, and the young wolves were bigger than dogs. It was the best time of the year for the chase. The hounds of that ardent young sportsman Rostov had not merely reached hard winter condition, but were so jaded that at a meeting of the huntsmen it was decided to give them a three days' rest and then, on the sixteenth of September, to go on a distant expedition, starting from the oak grove where there was an undisturbed litter of wolf cubs.

All that day the hounds remained at home. It was frosty and the air was sharp, but toward evening the sky became overcast and it began to thaw. On the fifteenth, when young Rostov, in his dressing gown, looked out of the window, he saw it was an unsurpassable morning for hunting: it was as if the sky were melting and sinking to the earth without any wind. The only motion in the air was that of the dripping, microscopic particles of drizzling mist. The bare twigs in the garden were hung with transparent drops which fell on the freshly fallen leaves. The earth in the kitchen garden looked wet and black and glistened like poppy seed and at a short distance merged into the dull, moist veil of mist. Nicholas went out into the wet and muddy porch. There was a smell of decaying leaves and of dog. Milka, a black-spotted, broad-haunched bitch with prominent black eyes, got up on seeing her master, stretched her hind legs, lay down like a hare, and then suddenly jumped up and licked him right on his nose and mustache. Another borzoi, a dog, catching sight of his master from the garden path, arched his back and, rushing headlong toward the porch with lifted tail, began rubbing himself against his legs.

"O-hoy!" came at that moment, that inimitable huntsman's call which unites the deepest bass with the shrillest tenor, and round the corner came Daniel the head huntsman and head kennelman, a gray, wrinkled old man with hair cut straight over his forehead, Ukrainian fashion, a long bent whip in his hand, and that look of independence and scorn of everything that is only seen in huntsmen. He doffed his Circassian cap to his master and looked at him scornfully. This

scorn was not offensive to his master. Nicholas knew that this Daniel, disdainful of everybody and who considered himself above them, was all the same his serf and huntsman.

"Daniel!" Nicholas said timidly, conscious at the sight of the weather, the hounds, and the huntsman that he was being carried away by that irresistible passion for sport which makes a man forget all his previous resolutions, as a lover forgets in the presence of his mistress.

"What orders, your excellency?" said the huntsman in his deep bass, deep as a proto-deacon's and hoarse with hallooing--and two flashing black eyes gazed from under his brows at his master, who was silent. "Can you resist it?" those eyes seemed to be asking.

"It's a good day, eh? For a hunt and a gallop, eh?" asked Nicholas, scratching Milka behind the ears.

Daniel did not answer,
but winked instead.

"I sent Uvarka at dawn to listen," his bass boomed out after a minute's pause. "He says she's moved them into the Otradnoe enclosure. They were howling there." (This meant that the she-wolf, about whom they both knew, had moved with her cubs to the Otradnoe copse, a small place a mile and a half from the house.)

"We ought to go, don't you think so?" said Nicholas. "Come to me with Uvarka."

"As you please."

"Then put off feeding them."

"Yes, sir."

Five minutes later Daniel and Uvarka were standing in Nicholas' big study. Though Daniel was not a big man, to see him in a room was like seeing a horse or a bear on the floor among the furniture and surroundings of human life. Daniel himself felt this, and as usual stood just inside the door, trying to speak softly and not move, for fear of breaking something in the master's apartment, and he hastened to say all that was necessary so as to get from under that ceiling, out into the open under the sky once more.

Having
finished his inquiries and extorted from Daniel an opinion that the hounds were fit (Daniel himself wished to go hunting),

Nicholas ordered the horses to be saddled. But just as Daniel was about to go Natasha came in with rapid steps, not having done up her hair or finished dressing and with her old nurse's big shawl wrapped round her. Petya ran in at the same time.

"You are going?" asked Natasha. "I knew you would! Sonya said you wouldn't go, but I knew that today is the sort of day when you couldn't help going."

"Yes, we are going," replied Nicholas reluctantly, for today, as he intended to hunt seriously, he did not want to take Natasha and Petya. "We are going, but only wolf hunting: it would be dull for you."

"You know it is my greatest pleasure," said Natasha. "It's not fair; you are going by yourself, are having the horses saddled and said nothing to us about it."

"'No barrier bars a Russian's path'--we'll go!" shouted Petya.

"But you can't. Mamma said you mustn't," said Nicholas to Natasha.

"Yes, I'll go. I shall certainly go," said Natasha decisively. "Daniel, tell them to saddle for us, and Michael must come with my dogs," she added to the huntsman.

It seemed to Daniel irksome and improper to be in a room at all, but to have anything to do with a young lady seemed to him impossible. He cast down his eyes and hurried out as if it were none of his business, careful as he went not to inflict any accidental injury on the young lady.

CHAPTER IV

The old count, who had always kept up an enormous hunting establishment but had now handed it all completely over to his son's care, being in very good spirits on this fifteenth of September, prepared to go out with the others.

In an hour's time the whole hunting party was at the porch. Nicholas, with a stern and serious air which showed that now was no time for attending to trifles, went past Natasha and Petya who were

trying to tell him something. He had a look at all the details of the hunt, sent a pack of hounds and huntsmen on ahead to find the quarry, mounted his chestnut Donets, and whistling to his own leash of borzois, set off across the threshing ground to a field leading to the Otradnoe wood. The old count's horse, a sorrel gelding called Viflyanka, was led by the groom in attendance on him, while the count himself was to drive in a small trap straight to a spot reserved for him.

They were taking fifty-four hounds, with six hunt attendants and whippers-in. Besides the family, there were eight borzoi kennelmen and more than forty borzois, so that, with the borzois on the leash belonging to members of the family, there were about a hundred and thirty dogs and twenty horsemen.

Each dog knew its master and its call. Each man in the hunt knew his business, his place, what he had to do. As soon as they had passed the fence they all spread out evenly and quietly, without noise or talk, along the road and field leading to the Otradnoe covert.

The horses stepped over the field as over a thick carpet, now and then splashing into puddles as they crossed a road. The misty sky still seemed to descend evenly and imperceptibly toward the earth, the air was still, warm, and silent. Occasionally the whistle of a huntsman, the snort of a horse, the crack of a whip, or the whine of a straggling hound could be heard.

When they had gone a little less than a mile, five more riders with dogs appeared out of the mist, approaching the Rostovs. In front rode a fresh-looking, handsome old man with a large gray mustache.

"Good morning, Uncle!" said Nicholas, when the old man drew near.

"That's it. Come on!... I was sure of it," began "Uncle." (He was a distant relative of the Rostovs', a man of small means, and their neighbor.) "I knew you wouldn't be able to resist it and it's a good thing you're going. That's it! Come on! (This was "Uncle's" favorite expression.) "Take the covert at once, for my Girchik says the Ilagins are at Korniki with their hounds. That's it. Come on!... They'll take the cubs from under your very nose."

"That's where I'm going. Shall we join up our packs?" asked Nicholas.

The hounds were joined into one pack, and "Uncle" and Nicholas rode on side by side. Natasha, muffled up in shawls which did not hide her eager face and shining eyes, galloped up to them. She was followed by Petya who always kept close to her, by Michael, a huntsman, and by a groom appointed to look after her. Petya, who was laughing, whipped and pulled at his horse. Natasha sat easily and confidently on her black Arabchik and reined him in without effort with a firm hand.

"Uncle" looked round disapprovingly at Petya and Natasha. He did not like to combine frivolity with the serious business of hunting.

"Good morning, Uncle! We are going too!" shouted Petya.

"Good morning, good morning! But don't go overriding the hounds," said "Uncle" sternly.

"Nicholas, what a fine dog Trunila is! He knew me," said Natasha, referring to her favorite hound.

"In the first place,
Trunila is not a 'dog,' but a harrier," thought
Nicholas, and looked sternly at his sister, trying to make her feel the distance that ought to separate them at that moment. Natasha understood it.

"You mustn't think we'll be in anyone's way, Uncle," she said. "We'll go to our places and won't budge."

"A good thing too, little countess," said "Uncle," "only mind you don't fall off your horse," he added, "because--that's it, come on!- you've nothing to hold on to."

The oasis of the Otradnoe covert came in sight a few hundred yards off, the huntsmen were already nearing it. Rostov, having finally settled with "Uncle" where they should set on the hounds, and having shown Natasha where she was to stand--a spot where nothing could possibly run out--went round above the ravine.

"Well, nephew, you're going for a big wolf," said "Uncle." "Mind and don't let her slip!"

"That's as may happen," answered Rostov. "Karay, here!" he shouted, answering "Uncle's" remark by this call to his borzoi.
Karay
was a shaggy old dog with a hanging jowl, famous for having tackled a big wolf unaided. They all took up their places.

The old count, knowing his son's ardor in the hunt, hurried so as

not to be late, and the huntsmen had not yet reached their places when Count Ilya Rostov, cheerful, flushed, and with quivering cheeks, drove up with his black horses over the winter rye to the place reserved for him, where a wolf might come out. Having straightened his coat and fastened on his hunting knives and horn, he mounted his good, sleek, well-fed, and comfortable horse, Viflyanka, which was turning gray, like himself. His horses and trap were sent home. Count Ilya Rostov, though not at heart a keen sportsman, knew the rules of the hunt well, and rode to the bushy edge of the road where he was to stand, arranged his reins, settled himself in the saddle, and, feeling that he was ready, looked about with a smile.

Beside him was Simon Chekmar, his personal attendant, an old horseman now somewhat stiff in the saddle. Chekmar held in leash three formidable wolfhounds, who had, however, grown fat like their master and his horse. Two wise old dogs lay down unleashed. Some hundred paces farther along the edge of the wood stood Mitka, the count's other groom, a daring horseman and keen rider to hounds. Before the hunt, by old custom, the count had drunk a silver cupful of mulled brandy, taken a snack, and washed it down with half a bottle of his favorite Bordeaux.

He was somewhat flushed with the wine and the drive. His eyes were rather moist and glittered more than usual, and as he sat in his saddle, wrapped up in his fur coat, he looked like a child taken out for an outing.

The thin, hollow-cheeked Chekmar, having got everything ready, kept glancing at his master with whom he had lived on the best of terms for thirty years, and understanding the mood he was in expected a pleasant chat. A third person rode up circumspectly through the wood (it was plain that he had had a lesson) and stopped behind the count. This person was a gray-bearded old man in a woman's cloak, with a tall peaked cap on his head. He was the buffoon, who went by a woman's name, Nastasya Ivanovna.

"Well, Nastasya Ivanovna!" whispered the count, winking at him. "If you scare away the beast, Daniel'll give it you!"

"I know a thing or two myself!" said Nastasya Ivanovna.

"Hush!" whispered the count and turned to Simon. "Have you seen the young countess?" he asked. "Where is she?"

"With young Count Peter, by the Zharov rank grass," answered Simon, smiling. "Though she's a lady, she's very fond of hunting."

"And you're surprised at the way she rides, Simon, eh?" said the count. "She's as good as many a man!"

"Of course! It's marvelous. So bold, so easy!"

"And Nicholas? Where is he? By the Lyadov upland, isn't he?"

"Yes, sir. He knows where to stand. He understands the matter so well that Daniel and I are often quite astounded," said Simon, well knowing what would please his master.

"Rides
well, eh? And how well he looks on his horse, eh?"

"A perfect picture! How he chased a fox out of the rank grass by the Zavarzinsk thicket the other day! Leaped a fearful place; what a sight when they rushed from the covert... the horse worth a thousand rubles and the rider beyond all price! Yes, one would have to search far to find another as smart."

"To search far..." repeated the count, evidently sorry Simon had not said more. "To search far," he said, turning back the skirt of his coat to get at his snuffbox.

"The other day when he came out from Mass in full uniform, Michael Sidorych..." Simon did not finish, for on the still air he had distinctly caught the music of the hunt with only two or three hounds giving tongue. He bent down his head and listened, shaking a warning finger at his master. "They are on the scent of the cubs..." he whispered, "straight to the Lyadov uplands."

The count, forgetting to smooth out the smile on his face, looked into the distance straight
before him, down the narrow open space,
holding the snuffbox in his hand but not taking any. After the cry of the hounds came the deep tones of the wolf call from Daniel's hunting horn; the pack joined the first three hounds and they could be heard in full cry, with that peculiar lift in the note that indicates that they are after a wolf. The whippers-in no longer set on the hounds, but changed to the cry of ulyulyu, and above the others rose Daniel's voice, now a deep bass, now piercingly shrill. His voice seemed to fill the whole wood and carried far beyond out into the open field.

After listening a few moments in silence, the count and his attendant convinced themselves that the hounds had separated into two packs: the sound of the larger pack, eagerly giving tongue,

began to die away in the distance, the other pack rushed by the wood past the count, and it was with this that Daniel's voice was heard calling ulyulyu. The sounds of both packs mingled and broke apart again, but
both were becoming more distant.

Simon sighed and stooped to straighten the leash a young borzoi had entangled; the count too sighed and, noticing the snuffbox in his hand, opened it and took a pinch. "Back!" cried Simon to a borzoi that was pushing forward out of the wood. The count started and dropped the snuffbox. Nastasya Ivanovna dismounted to pick it up. The count and Simon were looking at him.

Then, unexpectedly, as often happens, the sound of the hunt suddenly approached, as if the hounds in full cry and Daniel ulyulyuing were just in front of them.

The count turned and saw on his right Mitka staring at him with eyes starting out of his head, raising his cap and pointing before him to the other side.

"Look out!" he shouted, in a voice plainly showing that he had long fretted to utter that word, and letting the borzois slip he galloped toward the count.

The count and Simon galloped out of the wood and saw on their left a wolf which, softly swaying from side to side, was coming
at a quiet
lope farther to the left to the very place where they were standing. The angry borzois whined and getting free of the leash rushed past the horses' feet at the wolf.

The wolf paused, turned its heavy forehead toward the dogs awkwardly, like a man suffering from the quinsy, and, still slightly swaying from side to side, gave a couple of leaps and with a swish of its tail disappeared into the skirt of the wood. At the same instant, with a cry like a wail, first one hound, then another, and then another, sprang helter-skelter from the wood opposite and the whole pack rushed across the field toward the very spot where the wolf had disappeared. The hazel bushes parted behind the hounds and Daniel's chestnut horse appeared, dark with sweat. On its long back sat Daniel, hunched forward, capless, his disheveled gray hair hanging over his flushed, perspiring face.

"Ulyulyulyu! ulyulyu!..." he cried. When he caught sight of the count his eyes flashed lightning.

"Blast you!" he

shouted, holding up his whip threateningly at the count.

"You've let the wolf go!... What sportsmen!" and as if scorning to say more to the frightened and shamefaced count, he lashed the heaving flanks of his sweating chestnut gelding with all the anger the count had aroused and flew off after the hounds. The count, like a punished schoolboy, looked round, trying by a smile to win Simon's sympathy for his plight. But Simon was no longer there. He was galloping round by the bushes while the field was coming up on both sides, all trying to head the wolf, but it vanished into the wood before they could do so.

CHAPTER V

Nicholas Rostov meanwhile remained at his post, waiting for the wolf. By the way the hunt approached and receded, by the cries of the dogs whose notes were familiar to him, by the way the voices of the huntsmen approached, receded, and rose, he realized what was happening at the copse. He knew that young and old wolves were there, that the hounds had separated into two packs, that somewhere a wolf was being chased, and that something had gone wrong. He expected the wolf to come his way any moment. He made thousands of different conjectures as to where and from what side the beast would come and how he would set upon it. Hope alternated with despair. Several times he addressed a prayer to God that the wolf should come his way. He prayed with that passionate and shame-faced feeling with which men pray at moments of great excitement arising from trivial causes. "What would it be to Thee to do this for me?" he said to God. "I know Thou art great, and that it is a sin to ask this of Thee, but for God's sake do let the old wolf come my way and let Karay spring at it--in sight of 'Uncle' who is watching from over there--and seize it by the throat in a death grip!" A thousand times during that half-hour Rostov cast eager and restless glances over the edge of the wood, with the two scraggy oaks rising above the aspen undergrowth and the gully with its water-worn side and "Uncle's" cap just visible above the bush on his right.

"No, I shan't have such luck," thought Rostov, "yet what wouldn't it be worth! It is not to be! Everywhere, at cards and in war, I am always unlucky." Memories of Austerlitz and of Dolokhov flashed

rapidly and clearly through his mind. "Only once in my life to get an old wolf, I want only that!" thought he, straining eyes and ears and looking to the left and then to the right and listening to the slightest variation of note in the cries of the dogs.

Again he looked to the right and saw something running toward him across the deserted field. "No, it can't be!" thought Rostov, taking a deep breath, as a man does at the coming of something long hoped for. The height of happiness was reached--and so simply, without warning, or noise, or display, that Rostov could not believe his eyes and remained in doubt for over a second. The wolf ran forward and jumped heavily over a gully that lay in her path. She was an old animal
with a gray back and big reddish belly. She ran without hurry, evidently feeling sure that no one saw her. Rostov, holding his breath, looked round at the borzois. They stood or lay not seeing the wolf or understanding the situation. Old Karay had turned his head and was angrily searching for fleas, baring his yellow teeth and snapping at his hind legs.

"Ulyulyulyu!" whispered Rostov, pouting his lips. The borzois jumped up, jerking the rings of the leashes and pricking their ears. Karay finished scratching his hindquarters and, cocking his ears, got up with quivering tail from which tufts of matted hair hung down.

"Shall I loose them or not?" Nicholas asked himself as the wolf approached him coming from the copse. Suddenly the wolf's whole physiognomy changed: she shuddered, seeing what she had probably never seen before--human eyes fixed upon her--and turning her head a little toward Rostov, she paused.

"Back or forward? Eh, no matter, forward..." the wolf seemed to say to herself,
and she moved forward without again looking round and with a quiet, long, easy yet resolute lope.

"Ulyulyu!" cried Nicholas, in a voice not his own, and of its own accord his good horse darted headlong downhill, leaping over gullies to head off the wolf, and the borzois passed it, running faster still. Nicholas did not hear his own cry nor feel that he was galloping, nor see the borzois, nor the ground over which he went: he saw only the wolf, who, increasing her speed, bounded on in the same direction along the hollow. The first to come into view was Milka, with her black markings and powerful quarters, gaining upon the wolf. Nearer and nearer... now she was ahead of it; but the wolf turned its head to face her, and instead of putting on speed as she usually did Milka suddenly raised her tail and stiffened her forelegs.

"Ulyulyulyulyu!" shouted Nicholas.

The reddish Lyubim rushed forward from behind Milka, sprang impetuously at the wolf, and seized it by its hindquarters, but immediately
jumped aside in terror. The wolf crouched, gnashed her teeth, and again rose and bounded forward, followed at the distance of a couple of feet by all the borzois, who did not get any closer to her.

"She'll get away! No, it's impossible!" thought Nicholas, still shouting with a hoarse voice.

"Karay, ulyulyu!..." he shouted, looking round for the old borzoi who was now his only hope. Karay, with all the strength age had left him, stretched himself to the utmost and, watching the wolf, galloped heavily aside to intercept it. But the quickness of the wolf's lope and the borzoi's slower pace made it plain that Karay had miscalculated. Nicholas could already see not far in front of him the wood where the wolf would certainly escape should she reach it. But, coming toward him, he saw hounds and a huntsman galloping almost straight at the wolf. There was still hope. A long, yellowish

young borzoi, one Nicholas did not know, from another leash, rushed impetuously at the wolf from
in front and almost knocked her over. But
the wolf jumped up more quickly than anyone could have expected and, gnashing her teeth, flew at the yellowish borzoi, which, with a piercing yelp, fell with its head on the ground, bleeding from a gash in its side.

"Karay? Old fellow!..." wailed Nicholas.

Thanks to the delay caused by this crossing of the wolf's path, the old dog with its felted hair hanging from its thigh was within five paces of it. As if aware of her danger, the wolf turned her eyes on Karay, tucked her tail yet further between her legs, and increased her speed. But here Nicholas only saw that something happened to Karay--the borzoi was suddenly on the wolf, and they rolled together down into a gully just in front of them.

That instant, when Nicholas saw the wolf struggling in the gully with the dogs, while from under them could be seen her gray hair and outstretched hind leg and her frightened choking head, with her ears laid back (Karay was pinning her by the throat),
was the happiest
moment of his life. With his hand on his saddlebow, he was ready to dismount and stab the wolf, when she suddenly thrust her head up

from among that mass of dogs, and then her forepaws were on the edge of the gully. She clicked her teeth (Karay no longer had her by the throat), leaped with a movement of her hind legs out of the gully, and having disengaged herself from the dogs, with tail tucked in again, went forward. Karay, his hair bristling, and probably bruised or wounded, climbed with difficulty out of the gully.

"Oh my God! Why?" Nicholas cried in despair.

"Uncle's" huntsman was galloping from the other side across the wolf's path and his borzois once more stopped the animal's advance. She was again hemmed in.

Nicholas and his attendant, with "Uncle" and his huntsman, were all riding round the wolf, crying "ulyulyu!" shouting and preparing to dismount each moment that the wolf crouched back, and starting forward again every time she shook herself and moved toward the wood where she would be safe.

Already, at the beginning of this chase, Daniel, hearing the ulyulyuing, had rushed out from the wood. He saw Karay seize the wolf, and checked his horse, supposing the affair to be over. But when he saw that the horsemen did not dismount and that the wolf shook herself and ran for safety, Daniel set his chestnut galloping, not at the wolf but straight toward the wood, just as Karay had run to cut the animal off. As a result of this, he galloped up to the wolf just when she had been stopped a second time by "Uncle's" borzois.

Daniel galloped up silently, holding a naked dagger in his left hand and thrashing the laboring sides of his chestnut horse with his whip as if it were a flail.

Nicholas neither saw nor heard Daniel until the chestnut, breathing heavily, panted past him, and he heard the fall of a body and saw Daniel lying on the wolf's back among the dogs, trying to seize her by the ears. It was evident to the dogs, the hunters, and to the wolf herself that all was now over. The terrified wolf pressed back her ears and tried to rise, but the borzois stuck to her. Daniel rose a little, took a step, and with his whole weight, as if lying down to rest, fell on the wolf, seizing her by the ears. Nicholas was about to stab her, but Daniel whispered, "Don't! We'll gag her!" and, changing his position, set his foot on the wolf's neck. A stick was thrust between her jaws and she was fastened with a leash, as if bridled, her legs were bound together, and Daniel rolled her over once or twice from side to side.

With happy, exhausted faces, they laid the old wolf, alive, on a shying and snorting horse and, accompanied by the dogs yelping at her, took her to the place where they were all to meet. The hounds had killed two of the cubs and the borzois three. The huntsmen assembled with their booty and their stories, and all came to look at the wolf, which, with her broad-browed head hanging down and the bitten stick between her
jaws, gazed with great glassy eyes at this crowd
of dogs and men surrounding her. When she was touched, she jerked her bound legs and looked wildly yet simply at everybody. Old Count Rostov also rode up and touched the wolf.

"Oh, what a formidable one!" said he. "A formidable one, eh?" he asked Daniel, who was standing near.

"Yes, your excellency," answered Daniel, quickly doffing his cap.

The count remembered the wolf he had let slip and his encounter with Daniel.

"Ah, but you are a crusty fellow, friend!" said the count.

For sole reply Daniel gave him a shy, childlike, meek, and amiable smile.

CHAPTER VI

The old count went home, and Natasha and Petya promised to return very soon, but as it was still early the hunt went farther. At midday they put the hounds into a ravine thickly overgrown with young trees. Nicholas standing in a fallow field could see all his whips.

Facing him lay a field of winter rye, there his own huntsman stood alone in a hollow behind a hazel bush.
The hounds had scarcely been
loosed before Nicholas heard one he knew, Voltorn, giving tongue at intervals; other hounds joined in, now pausing and now again giving tongue. A moment later he heard a cry from the wooded ravine that a fox had been found, and the whole pack, joining together, rushed along the ravine toward the ryefield and away from Nicholas.

He saw the whips in their red caps galloping along the edge of the

ravine, he even saw the hounds, and was expecting a fox to show itself at any moment on the ryefield opposite.

The huntsman standing in the hollow moved and loosed his borzois, and Nicholas saw a queer, short-legged red fox with a fine brush going hard across the field. The borzois bore down on it.... Now they drew close to the fox which began to dodge between the field in sharper and sharper curves, trailing its brush, when suddenly a strange white borzoi dashed in followed by a black one, and everything was in confusion; the borzois formed a star-shaped figure, scarcely swaying their bodies and with tails turned away from the center of the group. Two huntsmen galloped up to the dogs; one in a red cap, the other, a stranger, in a green coat.

"What's this?" thought Nicholas. "Where's that huntsman from? He is not 'Uncle's' man."

The huntsmen got the fox, but stayed there a long time without strapping it to the saddle. Their horses, bridled and with high saddles, stood near them and there too the dogs were lying. The huntsmen waved their arms and did something to the fox. Then from that spot came the sound of a horn, with the signal agreed on in case of a fight.

"That's Ilagin's huntsman having a row with our Ivan," said Nicholas' groom.

Nicholas sent the man to call Natasha and Petya to him, and rode at a footpace to the place where the whips were getting the hounds together. Several of the field galloped to the spot where the fight was going on.

Nicholas dismounted, and with Natasha and Petya, who had ridden up, stopped near the hounds, waiting to see how the matter would end. Out of the bushes came the huntsman who had been fighting and rode toward his young master, with the fox tied to his crupper. While still at a distance he took off his cap and tried to speak respectfully, but he was pale and breathless and his face was angry. One of his eyes was black, but he probably was not even aware of it.

"What has happened?" asked Nicholas.

"A likely thing, killing a fox our dogs had hunted! And it was my gray bitch that caught it! Go to law, indeed!... He snatches at the fox! I gave him one with the fox. Here it is on my saddle! Do you want a taste of this?..." said the huntsman, pointing to his dagger and

probably imagining himself still speaking to his foe.

Nicholas, not stopping to talk to the man, asked his sister and Petya to wait for him and rode to the spot where the enemy's, Ilagin's, hunting party was.

The victorious huntsman rode off to join the field, and there, surrounded by inquiring sympathizers, recounted his exploits.

The facts were that Ilagin, with whom the Rostovs had a quarrel and were at law, hunted over places that belonged by custom to the Rostovs, and had now, as if purposely, sent his men to the very woods the Rostovs were hunting and let his man snatch a fox their dogs had chased.

Nicholas, though he had never seen Ilagin, with his usual absence of moderation in judgment, hated him cordially from reports of his arbitrariness and violence, and regarded him as his bitterest foe. He rode in angry agitation toward him, firmly grasping his whip and fully prepared to take the most resolute and desperate steps to punish his enemy.

Hardly had he passed an angle of the wood before a stout gentleman in a beaver cap came riding toward him on a handsome raven-black horse, accompanied by two hunt servants.

Instead of an enemy, Nicholas found in Ilagin a stately and courteous gentleman who was particularly anxious to make the young count's acquaintance. Having ridden up to Nicholas, Ilagin raised his beaver cap and said he much regretted what had occurred and would have the man punished who had allowed himself to seize a fox hunted by someone else's borzois. He hoped to become better acquainted with the count and invited him to draw his covert.

Natasha, afraid that her brother would do something dreadful, had followed him in some excitement. Seeing the enemies exchanging friendly greetings, she rode up to them. Ilagin lifted his beaver cap still higher to Natasha and said, with a pleasant smile, that the young countess resembled Diana in her passion for the chase as well as in her beauty, of which he had heard much.

To expiate his huntsman's offense, Ilagin pressed the Rostovs to come to an upland of his about a mile away which he usually kept for himself and which, he said, swarmed with hares. Nicholas agreed, and the hunt, now doubled, moved on.

The way to Iligin's upland was across the fields. The hunt servants fell into line. The masters rode together. "Uncle," Rostov, and Ilagin kept stealthily glancing at one another's dogs, trying not to be observed by their companions and searching uneasily for rivals to their own borzois.

Rostov was particularly struck by the beauty of a small, pure-bred, red-spotted bitch on Ilagin's leash, slender but with muscles like steel, a delicate muzzle, and prominent black eyes. He had heard of the swiftness of Ilagin's borzois, and in that beautiful bitch saw a rival to his own Milka.

In the middle of a sober conversation begun by Ilagin about the year's harvest, Nicholas pointed to the red-spotted bitch.

"A fine little bitch, that!" said he in a careless tone. "Is she swift?"

"That one? Yes, she's a good dog, gets what she's after," answered Ilagin indifferently, of the red-spotted bitch Erza, for which, a year before, he had given a neighbor three families of house serfs. "So in your parts, too, the harvest is nothing to boast of, Count?" he went on, continuing the conversation they had begun. And considering it polite to return the young count's compliment, Ilagin looked at his borzois and picked out Milka who attracted his attention by her breadth. "That black-spotted one of yours is fine--well shaped!" said he.

"Yes, she's fast enough," replied Nicholas, and thought: "If only a full-grown hare would cross the field now I'd show you what sort of borzoi she is," and turning to his groom, he said he would give a ruble to anyone who found a hare.

"I don't understand," continued Ilagin, "how some sportsmen can be so jealous about game and dogs. For myself, I can tell you, Count, I enjoy riding in company such as this... what could be better?" (he again raised his cap to Natasha) "but as for counting skins and what one takes, I don't care about that."

"Of course not!"

"Or being upset because someone else's borzoi and not mine catches something. All I care about is to enjoy seeing the chase, is it not so, Count? For I consider that..."

"A-tu!" came the long-drawn cry of one of the

borzoi whippers-in,
who had halted. He stood on a knoll in the stubble, holding his whip aloft, and again repeated his long-drawn cry, "A-tu!" (This call and the uplifted whip meant that he saw a sitting hare.)

"Ah, he has found one, I think," said Ilagin carelessly. "Yes, we must ride up.... Shall we both course it?" answered Nicholas, seeing in Erza and "Uncle's" red Rugay two rivals he had never yet had a chance of pitting against his own borzois. "And suppose they outdo my Milka at once!" he thought as he rode with "Uncle" and Ilagin toward the hare.

"A full-grown one?" asked Ilagin as he approached the whip who had sighted the hare--and not without agitation he looked round and whistled to Erza.

"And you, Michael Nikanorovich?" he said, addressing "Uncle."

The latter was riding with a sullen expression on his face.

"How can I join in? Why, you've given a village for each of your borzois! That's it, come on! Yours are worth thousands. Try yours against one another, you two, and
I'll look on!"

"Rugay, hey, hey!" he shouted. "Rugayushka!" he added, involuntarily by this diminutive expressing his affection and the hopes he placed on this red borzoi. Natasha saw and felt the agitation the two elderly men and her brother were trying to conceal, and was herself excited by it.

The huntsman stood halfway up the knoll holding up his whip and the gentlefolk rode up to him at a footpace; the hounds that were far off on the horizon turned away from the hare, and the whips, but not the gentlefolk, also moved away. All were moving slowly and sedately.

"How is it pointing?" asked Nicholas, riding a hundred paces toward the whip who had sighted the hare.

But before the whip could reply, the hare, scenting the frost coming next morning, was unable to rest and leaped up. The pack on leash rushed downhill in full cry after the hare, and from all sides the borzois that were not on leash darted after the hounds and the hare. All the hunt, who had been moving slowly, shouted,
"Stop!" calling
in the hounds, while the borzoi whips, with a cry of "A-tu!" galloped across the field setting the borzois on the hare. The tranquil Ilagin,

Nicholas, Natasha, and "Uncle" flew, reckless of where and how they went, seeing only the borzois and the hare and fearing only to lose sight even for an instant of the chase. The hare they had started was a strong and swift one. When he jumped up he did not run at once, but pricked his ears listening to the shouting and trampling that resounded from all sides at once. He took a dozen bounds, not very quickly, letting the borzois gain on him, and, finally having chosen his direction and realized his danger, laid back his ears and rushed off headlong. He had been lying in the stubble, but in front of him was the autumn sowing where the ground was soft. The two borzois of the huntsman who had sighted him, having been the nearest, were the first to see and pursue him, but they had not gone far before Ilagin's red-spotted Erza passed
them, got within a length, flew at the hare
with terrible swiftness aiming at his scut, and, thinking she had seized him, rolled over like a ball. The hare arched his back and bounded off yet more swiftly. From behind Erza rushed the broad-haunched, black-spotted Milka and began rapidly gaining on the hare.

"Milashka, dear!" rose Nicholas' triumphant cry. It looked as if Milka would immediately pounce on the hare, but she overtook him and flew past. The hare had squatted. Again the beautiful Erza reached him, but when close to the hare's scut paused as if measuring the distance, so as not to make a mistake this time but seize his hind leg.

"Erza, darling!" Ilagin wailed in a voice unlike his own. Erza did not hearken to his appeal. At the very moment when she would have seized her prey, the hare moved and darted along the balk between the winter rye and the stubble. Again Erza and Milka were abreast, running like a pair of carriage horses, and began to overtake the hare, but it was
easier for the hare to run on the balk and the
borzois did not overtake him so quickly.

"Rugay, Rugayushka! That's it, come on!" came a third voice just then, and "Uncle's" red borzoi, straining and curving its back, caught up with the two foremost borzois, pushed ahead of them regardless of the terrible strain, put on speed close to the hare, knocked it off the balk onto the ryefield, again put on speed still more viciously, sinking to his knees in the muddy field, and all one could see was how, muddying his back, he rolled over with the hare. A ring of borzois surrounded him. A moment later everyone had drawn up round the crowd of dogs. Only the delighted "Uncle" dismounted, and cut off a pad, shaking the hare for the blood to drip off, and anxiously glancing round with restless eyes while his arms and legs twitched. He spoke without himself knowing whom to or what about. "That's it,

come on! That's a dog!... There, it has beaten them all, the thousand-ruble as well as the one-ruble borzois. That's it, come on!" said he, panting and looking wrathfully around as if he were abusing someone, as if they were all his enemies and had insulted him, and only now had he at last succeeded in justifying himself. "There are your thousand-ruble ones.... That's it, come on!..."

"Rugay, here's a pad for you!" he said, throwing down the hare's muddy pad. "You've deserved it, that's it, come on!"

"She'd tired herself out, she'd run it down three times by herself," said Nicholas, also not listening to anyone and regardless of whether he were heard or not.

"But what is there in running across it like that?" said Ilagin's groom.

"Once she had missed it and turned it away, any mongrel could take it," Ilagin was saying at the same time, breathless from his gallop and his excitement. At the same moment Natasha, without drawing breath, screamed joyously, ecstatically, and so piercingly that it set everyone's ear tingling. By that shriek she expressed what the others expressed by all talking at once, and it was so strange that she must herself have been ashamed of so wild a cry and everyone else would have been amazed at it at any other time. "Uncle" himself twisted up the hare, threw it neatly and smartly across his horse's back as if by that gesture he meant to rebuke everybody, and, with an air of not wishing to speak to anyone, mounted his bay and rode off. The others all followed, dispirited and shamefaced, and only much later were they able to regain their former affectation of indifference. For a long time they continued to look at red Rugay who, his arched back spattered with mud and clanking the ring of his leash, walked along just behind "Uncle's" horse with the serene air of a conqueror.

"Well, I am like any other dog as long as it's not a question of coursing. But when it is, then look out!" his appearance seemed to Nicholas to be saying.

When, much later, "Uncle" rode up to Nicholas and began talking to him, he felt flattered that, after what had happened, "Uncle" deigned to speak to him.

CHAPTER VII

Toward evening Ilagin took leave of Nicholas, who found that they were so far from home that he accepted "Uncle's" offer that the hunting party should spend the night in his little village of Mikhaylovna.

"And if you put up at my house that will be better still. That's it, come on!" said "Uncle." "You see it's damp weather, and you could rest, and the little countess could be driven home in a trap."

"Uncle's" offer was accepted. A huntsman was sent to Otradnoe for a trap, while Nicholas rode with Natasha and Petya to "Uncle's" house.

Some five male domestic serfs, big and little, rushed out to the front porch to meet their master. A score of women serfs, old and young, as well as children, popped out from the back entrance to have a look at the hunters who were arriving. The presence of Natasha-a woman, a lady, and on horseback--raised the curiosity of the serfs to such a degree that many of them came up to her, stared her in the face, and unabashed by her presence made remarks about her as though she were some prodigy on show and not a human being able to hear or understand what was said about her.

"Arinka! Look, she sits sideways! There she sits and her skirt dangles.... See, she's got a little hunting horn!"

"Goodness gracious! See her knife?..."

"Isn't she a Tartar!"

"How is it you didn't go head over heels?" asked the boldest of all, addressing Natasha directly.

"Uncle" dismounted at the porch of his little wooden house which stood in the midst of an overgrown garden and, after a glance at his retainers, shouted authoritatively that the superfluous ones should take themselves off and that all necessary preparations should be made to receive the guests and the visitors.

The serfs all dispersed. "Uncle" lifted Natasha off her horse and taking her hand led her up the rickety wooden steps of the porch. The house, with its bare, unplastered log walls, was not overclean--it did not seem that those

living in it aimed at keeping it spotless--but neither was it noticeably neglected. In the entry there was a smell of fresh apples, and wolf and fox skins hung about.

"Uncle" led the visitors through the anteroom into a small hall with a folding table and red chairs, then into the drawing room with a round birchwood table and a sofa, and finally into his private room where there was a tattered sofa, a worn carpet, and portraits of Suvorov, of the host's father and mother, and of himself in military uniform. The study smelt strongly of tobacco and dogs. "Uncle" asked his visitors to sit down and make themselves at home, and then went out of the room. Rugay, his back still muddy, came into the room and lay down on the sofa, cleaning himself with his tongue and teeth. Leading from the study was a passage in which a partition with ragged curtains could be seen. From behind this came women's laughter and whispers. Natasha, Nicholas, and Petya took off their wraps and sat down on the sofa.

Petya, leaning on his elbow, fell asleep at once. Natasha and Nicholas were silent. Their faces glowed, they were hungry and very cheerful. They looked at one another (now that the hunt was over and they were in the house, Nicholas no longer considered it necessary to show his manly superiority over his sister), Natasha gave him a wink, and neither refrained long from bursting into a peal of ringing laughter even before they had a pretext ready to account for it.

After a while "Uncle" came in, in a Cossack coat, blue trousers, and small top boots. And Natasha felt that this costume, the very one she had regarded with surprise and amusement at Otradnoe, was just the right thing and not at all worse than a swallow-tail or frock coat. "Uncle" too was in high spirits and far from being offended by the brother's and sister's laughter (it could never enter his head that they might be laughing at his way of life) he himself joined in the merriment.

"That's right, young countess, that's it,

come on! I never saw anyone like her!" said he, offering Nicholas a pipe with a long stem and, with a practiced motion of three fingers, taking down another that had been cut short. "She's ridden all day like a man, and is as fresh as ever!"

Soon after "Uncle's" reappearance the door was opened, evidently from the sound by a barefooted girl, and a stout, rosy, good-looking woman of about forty, with a double chin and full red lips, entered carrying a large loaded tray. With hospitable dignity and cordiality in her glance and in every motion, she looked at the visitors and, with a pleasant smile, bowed respectfully. In spite of her exceptional

stoutness, which caused her to protrude her chest and stomach and throw back her head, this woman (who was "Uncle's" housekeeper) trod very lightly. She went to the table, set down the tray, and with her plump white hands deftly took from it the bottles and various hors d'oeuvres and dishes and arranged them on the table. When she had finished,
she stepped aside and stopped at the door with a smile on her face. "Here I am. I am she! Now do you understand 'Uncle'?" her expression said to Rostov. How could one help understanding? Not only Nicholas, but even Natasha understood the meaning of his puckered brow and the happy complacent smile that slightly puckered his lips when Anisya Fedorovna entered. On the tray was a bottle of herb wine, different kinds of vodka, pickled mushrooms, rye cakes made with buttermilk, honey in the comb, still mead and sparkling mead, apples, nuts (raw and roasted), and nut-and-honey sweets. Afterwards she brought a freshly roasted chicken, ham, preserves made with honey, and preserves made with sugar.

All this was the fruit of Anisya Fedorovna's housekeeping, gathered and prepared by her. The smell and taste of it all had a smack of Anisya Fedorovna herself: a savor of juiciness, cleanliness, whiteness, and pleasant smiles.

"Take this, little Lady-Countess!" she kept saying, as she offered Natasha
first one thing and then another.

Natasha ate of everything and thought she had never seen or eaten such buttermilk cakes, such aromatic jam, such honey-and-nut sweets, or such a chicken anywhere. Anisya Fedorovna left the room.

After supper, over their cherry brandy, Rostov and "Uncle" talked of past and future hunts, of Rugay and Ilagin's dogs, while Natasha sat upright on the sofa and listened with sparkling eyes. She tried several times to wake Petya that he might eat something, but he only muttered incoherent words without waking up. Natasha felt so lighthearted and happy in these novel surroundings that she only feared the trap would come for her too soon. After a casual pause, such as often occurs when receiving friends for the first time in one's own house, "Uncle," answering a thought that was in his visitors' mind, said:

"This, you see, is how I am finishing my days... Death will come. That's it, come on! Nothing will remain. Then why harm anyone?"

"Uncle's" face was very
significant and even handsome as he said this. Involuntarily Rostov recalled all the good he had heard about

him from his father and the neighbors. Throughout the whole province "Uncle" had the reputation of being the most honorable and disinterested of cranks. They called him in to decide family disputes, chose him as executor, confided secrets to him, elected him to be a justice and to other posts; but he always persistently refused public appointments, passing the autumn and spring in the fields on his bay gelding, sitting at home in winter, and lying in his overgrown garden in summer.

"Why don't you enter the service, Uncle?"

"I did once, but gave it up. I am not fit for it. That's it, come on! I can't make head or tail of it. That's for you--I haven't brains enough. Now, hunting is another matter--that's it, come on! Open the door, there!" he shouted. "Why have you shut it?"

The door at the end of the passage led to the huntsmen's room, as they called the room for the hunt servants.

There was a rapid patter of bare feet, and an unseen hand opened the door into the huntsmen's room, from which came the clear sounds of a balalayka on which someone, who was evidently a master of the art, was playing. Natasha had been listening to those strains for some time and now went out into the passage to hear better.

"That's Mitka, my coachman.... I have got him a good balalayka. I'm fond of it," said "Uncle."

It was the custom for Mitka to play the balalayka in the huntsmen's room when "Uncle" returned from the chase. "Uncle" was fond of such music.

"How good! Really very good!" said Nicholas with some unintentional superciliousness, as if ashamed to confess that the sounds pleased him very much.

"Very good?" said Natasha reproachfully, noticing her brother's tone. "Not 'very good' it's simply delicious!"

Just as "Uncle's" pickled mushrooms, honey, and cherry brandy had seemed to her the best in the world, so also that song, at that moment, seemed to her the acme of musical delight.

"More, please, more!" cried Natasha at the door as soon as the balalayka ceased. Mitka tuned up afresh, and recommenced thrumming the balalayka to the air of My Lady, with trills and variations. "Uncle"

sat listening, slightly smiling, with his head on one side. The air was repeated a hundred times. The balalayka was retuned several times and the same notes were thrummed again, but the listeners did not grow weary of it and wished to hear it again and again. Anisya Fedorovna came in and leaned her portly person against the doorpost.

"You like listening?" she said to Natasha, with a smile extremely like "Uncle's." "That's a good player of ours," she added.

"He doesn't play that part right!" said "Uncle" suddenly, with an energetic gesture. "Here he ought to burst out--that's it, come on!- ought to burst out."

"Do you play then?" asked Natasha.

"Uncle" did not answer, but smiled.

"Anisya, go and see if the strings of my guitar are all right. I haven't touched it for a long time. That's it--come on! I've given it up."

Anisya Fedorovna, with her light step, willingly went to fulfill her errand and brought back the guitar.

Without looking at anyone, "Uncle" blew the dust off it and, tapping the case with his bony fingers, tuned the guitar and settled himself in his armchair. He took the guitar a little above the fingerboard, arching his left elbow with a somewhat theatrical gesture, and, with a wink at Anisya Fedorovna, struck a single chord, pure and sonorous, and then quietly, smoothly, and confidently began playing in very slow time, not My Lady, but the well-known song: Came a maiden down the street. The tune, played with precision and in exact time, began to thrill in the hearts of Nicholas and Natasha, arousing in them the same kind of sober mirth as radiated from Anisya Fedorovna's whole being. Anisya Fedorovna flushed, and drawing her kerchief over her face went laughing out of the room. "Uncle" continued to play correctly, carefully, with energetic firmness, looking with a changed and inspired expression at the spot where Anisya Fedorovna had just stood. Something seemed to be laughing a little on one side of his face under his gray mustaches, especially as the song grew brisker and the time quicker and when, here and there, as he ran his fingers over the strings, something seemed to snap.

"Lovely, lovely! Go on, Uncle, go on!" shouted Natasha as soon as he had finished. She jumped up and hugged and kissed him. "Nicholas, Nicholas!" she said, turning to her brother, as if asking him: "What

is it moves me so?"

Nicholas too was greatly pleased by "Uncle's" playing, and "Uncle" played the piece over again. Anisya Fedorovna's smiling face reappeared in the doorway and behind hers other faces...

Fetching water clear and sweet,
Stop, dear maiden, I entreat-

played "Uncle" once more, running his fingers skillfully over the strings, and then he stopped short and jerked his shoulders.

"Go on, Uncle dear," Natasha wailed in an imploring tone as if her life depended on it.

"Uncle" rose, and it was as if there were two men in him: one of them smiled seriously at the merry fellow, while the merry fellow struck a naive and precise attitude preparatory to a folk dance.

"Now then, niece!" he exclaimed, waving to Natasha the hand that had just struck a chord.

Natasha threw off the shawl from her shoulders, ran forward to face "Uncle," and setting her arms akimbo also made a motion with her shoulders and struck an attitude.

Where, how, and when had this young countess, educated by an emigree French governess, imbibed from the Russian air she breathed that spirit and obtained that manner which the pas de chale* would, one would have supposed, long ago have effaced? But the spirit and the movements were those inimitable and unteachable Russian ones that "Uncle" had expected of her. As soon as she had struck her pose, and smiled triumphantly, proudly, and with sly merriment, the fear that had at first seized Nicholas and the others that she might not do the right thing was at an end, and they were already admiring her.

*The French shawl dance.

She did the right thing with such precision, such complete precision, that Anisya Fedorovna, who had at once handed her the handkerchief she needed for the dance, had tears in her eyes, though she laughed as she watched this slim, graceful countess, reared in silks and velvets and so different from herself, who yet was able to understand all that was in Anisya and in Anisya's father and mother

and aunt, and in every Russian man and woman.

"Well, little countess; that's it--come on!" cried "Uncle," with a joyous laugh, having finished the dance. "Well done, niece! Now a fine young fellow must be found as husband for you. That's it--come on!"

"He's chosen already," said Nicholas smiling.

"Oh?" said "Uncle" in surprise, looking inquiringly at Natasha, who nodded her head with a happy smile.

"And such a one!" she said. But as soon as she had said it a new train of thoughts and feelings arose in her. "What did Nicholas' smile mean when he said 'chosen already'? Is he glad of it or not? It is as if he thought my Bolkonski would not approve of or understand our gaiety. But he would understand it all. Where is he now?" she thought, and her face suddenly became serious. But this lasted only a second. "Don't dare to think about it," she said to herself, and sat down again smilingly beside "Uncle," begging him to play something more.

"Uncle" played another song and a valse; then after a pause he cleared his throat and sang his favorite hunting song:

As 'twas growing dark last night
Fell the snow so soft and light...

"Uncle" sang as peasants sing, with full and naive conviction that the whole meaning of a song lies in the words and that the tune comes of itself, and that apart from the words there is no tune, which exists only to give measure to the words. As a result of this the unconsidered tune, like the song of a bird, was extraordinarily good. Natasha was in ecstasies over "Uncle's" singing. She resolved to give up learning the harp and to play only the guitar. She asked "Uncle" for his guitar and at once found the chords of the song.

After nine o'clock two traps and three mounted men, who had been sent to look for them, arrived to fetch Natasha and Petya. The count and countess did not know where they were and were very anxious, said one of the men.

Petya was carried out like a log and laid in the larger of the two traps. Natasha and Nicholas got into the other. "Uncle" wrapped Natasha up warmly and took leave of her with quite a new tenderness. He accompanied them on foot as far as the bridge that could not be crossed, so that they had to go round by the ford, and he sent

huntsmen to ride in front with lanterns.

"Good-by, dear niece," his voice called out of the darkness--not the voice Natasha had known previously, but the one that had sung As 'twas growing dark last night.

In the village through which they passed there were red lights and a cheerful smell of smoke.

"What a darling Uncle is!" said Natasha, when they had come out onto the highroad.

"Yes," returned Nicholas. "You're not cold?"

"No. I'm quite, quite all right. I feel so comfortable!" answered Natasha, almost perplexed by her feelings. They remained silent a long while. The night was dark and damp. They could not see the horses, but only heard them splashing through the unseen mud.

What was passing in that receptive childlike soul that so eagerly caught and assimilated all the diverse impressions of life? How did they all find place in her? But she was very happy. As they were nearing home she suddenly struck up the air of As 'twas growing dark last night--the tune of which she had all the way been trying to get and had at last caught.

"Got it?" said Nicholas.

"What were you thinking about just now, Nicholas?" inquired Natasha.

They were fond of asking one another that question.

"I?" said Nicholas, trying to remember. "Well, you see, first I thought that Rugay, the red hound, was like Uncle, and that if he were a man he would always keep Uncle near him, if not for his riding, then for his manner. What a good fellow Uncle is! Don't you think so?... Well, and you?"

"I? Wait a bit, wait.... Yes, first I thought that we are driving along and imagining that we are going home, but that heaven knows where we are really going in the darkness, and that we shall arrive and suddenly find that we are not in Otradnoe, but in Fairyland. And then I thought... No, nothing else."

"I know, I expect you thought of him," said Nicholas, smiling as Natasha knew by the sound of his voice.

"No," said Natasha, though she had in reality been thinking about Prince Andrew at the same time as of the rest, and of how he would have liked "Uncle." "And then I was saying to myself all the way, 'How well Anisya carried herself, how well!'" And Nicholas heard her spontaneous, happy, ringing laughter. "And do you know," she suddenly said, "I know that I shall never again be as happy and tranquil as I am now."

"Rubbish, nonsense, humbug!" exclaimed Nicholas, and he thought: "How charming this Natasha of mine is! I have no other friend like her and never shall have. Why should she marry? We might always drive about together!"

"What a darling this Nicholas of mine is!" thought Natasha.

"Ah, there are still lights in the drawingroom!" she said, pointing to the windows of the house that gleamed invitingly in the moist velvety darkness of the night.

CHAPTER VIII

Count Ilya Rostov had resigned the position of Marshal of the Nobility because it involved him in too much expense, but still his affairs did not improve. Natasha and Nicholas often noticed their parents conferring together anxiously and privately and heard suggestions of selling the fine ancestral Rostov house and estate near Moscow. It was not necessary to entertain so freely as when the count had been Marshal, and life at Otradnoe was quieter than in former years, but still the enormous house and its lodges were full of people and more than twenty sat down to table every day. These were all their own people who had settled down in the house almost as members of the family, or persons who were, it seemed, obliged to live in the count's house. Such were Dimmler the musician and his wife, Vogel the dancing master and his family, Belova, an old maiden lady, an inmate of the house, and many others such as Petya's tutors, the girls' former governess, and other people who simply found it preferable and more advantageous to live in the count's house than at home. They had not as many visitors as before, but the old habits of life without which the count and countess could not conceive of existence remained unchanged. There was still the hunting

establishment which Nicholas had even enlarged, the same fifty horses and fifteen grooms in the stables, the same expensive presents and dinner parties to the whole district on name days;
there were still the count's games of whist and boston, at which-spreading out his cards so that everybody could see them--he let himself be plundered of hundreds of rubles every day by his neighbors, who looked upon an opportunity to play a rubber with Count Rostov as a most profitable source of income.

The count moved in his affairs as in a huge net, trying not to believe that he was entangled but becoming more and more so at every step, and feeling too feeble to break the meshes or to set to work carefully and patiently to disentangle them. The countess, with her loving heart, felt that her children were being ruined, that it was not the count's fault for he could not help being what he was--that (though he tried to hide it) he himself suffered from the consciousness of his own and his children's ruin, and she tried to find means of remedying the position. From her feminine point of view she could see only one solution, namely, for Nicholas to marry a rich heiress.
She felt this to be their last hope and that if Nicholas refused the match she had found for him, she would have to abandon the hope of ever getting matters right. This match was with Julie Karagina, the daughter of excellent and virtuous parents, a girl the Rostovs had known from childhood, and who had now become a wealthy heiress through the death of the last of her brothers.

The countess had written direct to Julie's mother in Moscow suggesting a marriage between their children and had received a favorable answer from her. Karagina had replied that for her part she was agreeable, and everything depend on her daughter's inclination. She invited Nicholas to come to Moscow.

Several times the countess, with tears in her eyes, told her son that now both her daughters were settled, her only wish was to see him married. She said she could lie down in her grave peacefully if that were accomplished. Then she told him that she knew of a splendid girl and tried to discover what he thought about marriage.

At other times she praised Julie to him and advised him to go to Moscow during the holidays to amuse himself. Nicholas guessed what his mother's remarks were leading to and during one of these conversations induced her to speak quite frankly. She told him that her only hope of getting their affairs disentangled now lay in his marrying Julie Karagina.

"But, Mamma, suppose I loved a girl who has no fortune, would you expect me to sacrifice my feelings and my honor for the sake of money?" he asked his mother, not realizing the cruelty of his question and only wishing to show his noble-mindedness.

"No, you have not understood me," said his mother, not knowing how to justify herself. "You have not understood me, Nikolenka. It is your happiness I wish for," she added, feeling that she was telling an untruth and was becoming entangled. She began to cry.

"Mamma, don't cry! Only tell me that you wish it, and you know I will give my life, anything, to put you at ease," said Nicholas. "I would sacrifice anything for you--even my feelings."

But the countess did not want the question put like that: she did not want a sacrifice from her son, she herself wished to make a sacrifice for him.

"No, you have not understood me, don't let us talk about it," she replied, wiping away her tears.

"Maybe I do love a poor girl," said Nicholas to himself. "Am I to sacrifice my feelings and my honor for money? I wonder how Mamma could speak so to me. Because Sonya is poor I must not love her," he thought, "must not respond to her faithful, devoted love? Yet I should certainly be happier with her than with some doll-like Julie. I can always sacrifice my feelings for my family's welfare," he said to himself, "but I can't coerce my feelings. If I love Sonya, that feeling is for me stronger and higher than all else."

Nicholas did not go to Moscow, and the countess did not renew the conversation with him about marriage. She saw with sorrow, and sometimes with exasperation, symptoms of a growing attachment between her son and the portionless Sonya. Though she blamed herself for it, she could not refrain from grumbling at and worrying Sonya, often pulling her up without reason, addressing her stiffly as "my dear," and using the formal "you" instead of the intimate "thou" in speaking to her. The kindhearted countess was the more vexed with Sonya because that poor, dark-eyed niece of hers was so meek, so kind, so devotedly grateful to her benefactors, and so faithfully, unchangingly, and unselfishly in love with Nicholas, that there were no grounds for finding fault with her.

Nicholas was spending the last of his leave at home. A fourth letter had come from Prince Andrew, from Rome, in which he wrote that he would have been on his way back to Russia long ago had not his wound

unexpectedly reopened in the warm climate, which obliged him to defer his return till the beginning of the new year. Natasha was still as much in love with her betrothed, found the same comfort in that love, and was still as ready to throw herself into all the pleasures of life as before; but at the end of the fourth month of their separation she began to have fits of depression which she could not master. She felt sorry for herself: sorry that she was being wasted all this time and of no use to anyone--while she felt herself so capable of loving and being loved.

Things were not cheerful in the Rostovs' home.

CHAPTER IX

Christmas came and except for the ceremonial Mass, the solemn and wearisome Christmas congratulations from neighbors and servants, and the new dresses everyone put on, there were no special festivities, though the calm frost of twenty degrees Reaumur, the dazzling sunshine by day, and the starlight of the winter nights seemed to call for some special celebration of the season.

On the third day of Christmas week, after the midday dinner, all the inmates of the house dispersed to various rooms. It was the dullest time of the day. Nicholas, who had been visiting some neighbors that morning, was asleep on the sitting-room sofa. The old count was resting in his study. Sonya sat in the drawing room at the round table, copying a design for embroidery. The countess was playing patience. Nastasya Ivanovna the buffoon sat with a sad face at the window with two old ladies. Natasha came into the room, went up to Sonya, glanced at what she was doing, and then went up to her mother and stood without speaking.

"Why are you wandering about like an outcast?" asked her mother. "What do you want?"

"Him... I want him... now, this minute! I want him!" said Natasha, with glittering eyes and no sign of a smile.

The countess lifted her head and looked attentively at her daughter.

"Don't look at me, Mamma! Don't look; I shall cry directly."

"Sit down with me a little," said the countess.

"Mamma, I want him. Why should I be wasted like this, Mamma?"

Her voice broke, tears gushed from her eyes, and she turned quickly to hide them and left the room.

She passed into the sitting room, stood there thinking awhile, and then went into the maids' room. There an old maidservant was grumbling at a young girl who stood panting, having just run in through the cold from the serfs' quarters.

"Stop playing--there's a time for everything," said the old woman.

"Let her alone, Kondratevna," said Natasha. "Go, Mavrushka, go."

Having released Mavrushka, Natasha crossed the dancing hall and went to the vestibule. There an old footman and two young ones were playing cards. They broke off and rose as she entered.

"What can I do with them?" thought Natasha.

"Oh, Nikita, please go... where can I send him?... Yes, go to the yard and fetch a fowl, please, a cock, and you, Misha, bring me some oats."

"Just a few oats?" said Misha, cheerfully and readily.

"Go, go quickly," the old man urged him.

"And you, Theodore, get me a piece of chalk."

On her way past the butler's pantry she told them to set a samovar, though it was not at all the time for tea.

Foka, the butler, was the most ill-tempered person in the house. Natasha liked to test her power over him. He distrusted the order and asked whether the samovar was really wanted.

"Oh dear, what a young lady!" said Foka, pretending to frown at Natasha.

No one in the house sent people about or gave them as much trouble as Natasha did. She could not see people unconcernedly, but had to send them on some errand. She seemed to be trying whether any of

them would get angry or sulky with her; but the serfs fulfilled no one's orders so readily as they did hers. "What can I do, where can I go?" thought she, as she went slowly along the passage.

"Nastasya Ivanovna, what sort of children shall I have?" she asked the buffoon, who was coming toward her in a woman's jacket.

"Why, fleas, crickets, grasshoppers," answered the buffoon.

"O Lord, O Lord, it's always the same! Oh, where am I to go? What am I to do with myself?" And tapping with her heels, she ran quickly upstairs to see
Vogel and his wife who lived on the upper story.

Two governesses were sitting with the Vogels at a table, on which were plates of raisins, walnuts, and almonds. The governesses were discussing whether it was cheaper to live in Moscow or Odessa. Natasha sat down, listened to their talk with a serious and thoughtful air, and then got up again.

"The island of Madagascar," she said, "Ma-da-gas-car," she repeated, articulating each syllable distinctly, and, not replying to Madame Schoss who asked her what she was saying, she went out of the room.

Her brother Petya was upstairs too; with the man in attendance on him he was preparing fireworks to let off that night.

"Petya! Petya!" she called to him. "Carry me downstairs."

Petya ran up and offered her his back. She jumped on it, putting her arms round his neck, and he pranced along with her.

"No, don't... the island of Madagascar!" she said, and jumping off his back she went downstairs.

Having as it were reviewed her kingdom, tested
her power, and made
sure that everyone was submissive, but that all the same it was dull, Natasha betook herself to the ballroom, picked up her guitar, sat down in a dark corner behind a bookcase, and began to run her fingers over the strings in the bass, picking out a passage she recalled from an opera she had heard in Petersburg with Prince Andrew. What she drew from the guitar would have had no meaning for other listeners, but in her imagination a whole series of reminiscences arose from those sounds. She sat behind the bookcase with her eyes fixed on a streak of light escaping from the pantry door and listened to herself and pondered. She was in a mood for brooding on the past.

Sonya passed to the pantry with a glass in her hand. Natasha glanced at her and at the crack in the pantry door, and it seemed to her that she remembered the light failing through that crack once before and Sonya passing with a glass in her hand. "Yes it was exactly the same," thought Natasha.

"Sonya, what
is this?" she cried, twanging a thick string.

"Oh, you are there!" said Sonya with a start, and came near and listened. "I don't know. A storm?" she ventured timidly, afraid of being wrong.

"There! That's just how she started and just how she came up smiling timidly when all this happened before," thought Natasha, "and in just the same way I thought there was something lacking in her."

"No, it's the chorus from The Water-Carrier, listen!" and Natasha sang the air of the chorus so that Sonya should catch it. "Where were you going?" she asked.

"To change the water in this glass. I am just finishing the design."

"You always find something to do, but I can't," said Natasha. "And where's Nicholas?"

"Asleep, I think."

"Sonya, go and wake him," said Natasha. "Tell him I want him to come and sing."

She sat awhile, wondering what the meaning of it all having happened before could be, and without solving this problem, or at all regretting not having done so, she again passed in fancy to
the time
when she was with him and he was looking at her with a lover's eyes.

"Oh, if only he would come quicker! I am so afraid it will never be! And, worst of all, I am growing old--that's the thing! There won't then be in me what there is now. But perhaps he'll come today, will come immediately. Perhaps he has come and is sitting in the drawing room. Perhaps he came yesterday and I have forgotten it." She rose, put down the guitar, and went to the drawing room.

All the domestic circle, tutors, governesses, and guests, were already at the tea table. The servants stood round the table--but Prince Andrew was not there and life was going on as before.

"Ah, here she is!" said the old count, when he saw Natasha enter. "Well, sit down by me." But Natasha stayed by her mother and glanced round as if looking for something.

"Mamma!" she muttered, "give him to me, give him, Mamma, quickly, quickly!" and she again had difficulty in repressing her sobs.

She sat down at the table and listened to the conversation between the elders and Nicholas, who had also come to the table. "My God, my God! The same faces, the same talk, Papa holding his cup and blowing in the same way!" thought Natasha, feeling with horror a sense of repulsion rising up in her for the whole household, because they were always the same.

After tea, Nicholas, Sonya, and Natasha went to the sitting room, to their favorite corner where their most intimate talks always began.

CHAPTER X

"Does it ever happen to you," said Natasha to her brother, when they settled down in the sitting room, "does it ever happen to you to feel as if there were nothing more to come--nothing; that everything good is past? And to feel not exactly dull, but sad?"

"I should think so!" he replied. "I have felt like that when everything was all right and everyone was cheerful. The thought has come into my mind that I was already tired of it all, and that we must all die. Once in the regiment I had not gone to some merrymaking where there was music... and suddenly I felt so depressed..."

"Oh yes, I know, I know, I know!" Natasha interrupted him. "When I was quite little that used to be so with me. Do you remember when I was punished once about some plums? You were all dancing, and I sat sobbing in the schoolroom? I shall never forget it: I felt sad and sorry for everyone, for myself, and for everyone. And I was innocent--that was the chief thing," said Natasha. "Do you remember?"

"I remember," answered Nicholas. "I remember that I came to you afterwards and wanted to comfort you, but do you know, I felt ashamed to. We were terribly absurd. I had a funny doll then and

wanted to give it to you. Do you remember?"

"And do you remember," Natasha asked with a pensive smile, "how once, long, long ago, when we were quite little, Uncle called us into the study--that was in the old house--and it was dark--we went in and suddenly there stood..."

"A Negro," chimed in Nicholas with a smile of delight. "Of course I remember.
Even now I don't know whether there really was a Negro, or if we only dreamed it or were told about him."

"He was gray, you remember, and had white teeth, and stood and looked at us..."

"Sonya, do you remember?" asked Nicholas.

"Yes, yes, I do remember something too," Sonya answered timidly.

"You know I have asked Papa and Mamma about that Negro," said Natasha, "and they say there was no Negro at all. But you see, you remember!"

"Of course I do, I remember his teeth as if I had just seen them."

"How strange it is! It's as if it were a dream! I like that."

"And do you remember how we rolled hard-boiled eggs in the ballroom, and suddenly two old women began spinning round on the carpet? Was that real or not? Do you remember what fun it was?"

"Yes, and you remember how Papa in his blue overcoat fired a gun in the porch?"

So they went through their memories, smiling with pleasure: not the sad memories of old age, but poetic, youthful ones--those impressions of one's most distant
past in which dreams and realities
blend--and they laughed with quiet enjoyment.

Sonya, as always, did not quite keep pace with them, though they shared the same reminiscences.

Much that they remembered had slipped from her mind, and what she recalled did not arouse the same poetic feeling as they experienced. She simply enjoyed their pleasure and tried to fit in with it.

She only really took part when they recalled Sonya's first

arrival. She told them how afraid she had been of Nicholas because he had on a corded jacket and her nurse had told her that she, too, would be sewn up with cords.

"And I remember their telling me that you had been born under a cabbage," said Natasha, "and I remember that I dared not disbelieve it then, but knew that it was not true, and I felt so uncomfortable."

While they were talking a maid thrust her head in at the other door of the sitting room.

"They have brought the cock, Miss," she said in a whisper.

"It isn't wanted, Petya. Tell them to take it away," replied Natasha.

In the middle of their talk in the sitting room, Dimmler came in and went up to the harp that stood there in a corner. He took off its cloth covering, and the harp gave out a jarring sound.

"Mr. Dimmler, please play my favorite nocturne by Field," came the old countess' voice from the drawing room.

Dimmler struck a chord and, turning to Natasha, Nicholas, and Sonya, remarked: "How quiet you young people are!"

"Yes, we're philosophizing," said Natasha, glancing round for a moment and then continuing the conversation. They were now discussing dreams.

Dimmler began to play; Natasha went on tiptoe noiselessly to the table, took up a candle, carried it out, and returned, seating herself quietly in her former place. It was dark in the room especially where they were sitting on the sofa, but through the big windows the silvery light of the full moon fell on the floor. Dimmler had finished the piece but still sat softly running his fingers over the strings, evidently uncertain whether to stop or to play something else.

"Do you know," said Natasha in a whisper, moving closer to Nicholas and Sonya, "that when one goes on and on recalling memories, one at last begins to remember what happened before one was in the world..."

"That is metempsychosis," said Sonya, who had always learned well, and remembered everything. "The Egyptians believed that our souls have lived in animals, and will go back into animals again."

"No, I don't believe we ever were in animals," said Natasha, still in a whisper though the music had ceased. "But I am certain that we were angels somewhere there, and have been here, and that is why we remember...."

"May I join you?" said Dimmler who had come up quietly, and he sat down by them.

"If we have been angels, why have we fallen lower?" said Nicholas. "No, that can't be!"

"Not lower, who said we were lower?... How do I know what I was before?" Natasha rejoined with conviction. "The soul is immortal--well then, if
I shall always live I must have lived before, lived for a whole eternity."

"Yes, but it is hard for us to imagine eternity," remarked Dimmler, who had joined the young folk with a mildly condescending smile but now spoke as quietly and seriously as they.

"Why is it hard to imagine eternity?" said Natasha. "It is now today, and it will be tomorrow, and always; and there was yesterday, and the day before..."

"Natasha! Now it's your turn. Sing me something," they heard the countess say. "Why are you sitting there like conspirators?"

"Mamma, I don't at all want to," replied Natasha, but all the same she rose.

None of them, not even the middle-aged Dimmler, wanted to break off their conversation and quit that corner in the sitting room, but Natasha got up and Nicholas sat down at the clavichord. Standing as usual in the middle of the hall and choosing the place where the resonance was best, Natasha began to sing her mother's favorite song.

She had said she did not want to sing, but it
was long since she had
sung, and long before she again sang, as she did that evening. The count, from his study where he was talking to Mitenka, heard her and, like a schoolboy in a hurry to run out to play, blundered in his talk while giving orders to the steward, and at last stopped, while Mitenka stood in front of him also listening and smiling. Nicholas did not take his eyes off his sister and drew breath in time with her. Sonya, as she listened, thought of the immense difference there was between herself and her friend, and how

impossible it was for her to be anything like as bewitching as her cousin. The old countess sat with a blissful yet sad smile and with tears in her eyes, occasionally shaking her head. She thought of Natasha and of her own youth, and of how there was something unnatural and dreadful in this impending marriage of Natasha and Prince Andrew.

Dimmler, who had seated himself beside the countess, listened with closed eyes.

"Ah, Countess," he said at last, "that's a European talent, she has nothing to learn--what softness, tenderness, and strength...."

"Ah, how afraid I am for her, how afraid I am!" said the countess, not realizing to whom she was speaking. Her maternal instinct told her that Natasha had too much of something, and that because of this she would not be happy. Before Natasha had finished singing, fourteen-year-old Petya rushed in delightedly, to say that some mummers had arrived.

Natasha stopped abruptly.

"Idiot!" she screamed at her brother and, running to a chair, threw herself on it, sobbing so violently that she could not stop for a long time.

"It's nothing, Mamma, really it's nothing; only Petya startled me," she said, trying to smile, but her tears still flowed and sobs still choked her.

The mummers (some of the house serfs) dressed up as bears, Turks, innkeepers, and ladies--frightening and funny--bringing in with them the cold from outside and a feeling of gaiety, crowded, at first timidly, into the anteroom, then hiding behind one another they pushed into the ballroom where, shyly at first and then more and more merrily and heartily, they started singing, dancing, and playing Christmas games. The countess, when she had identified them and laughed at their costumes, went into the drawing room. The count sat in the ballroom, smiling radiantly and applauding the players. The young people had disappeared.

Half an hour later there appeared among the other mummers in the ballroom an old lady in a hooped skirt--this was Nicholas. A Turkish girl was Petya. A clown was Dimmler. An hussar was Natasha, and a Circassian was Sonya with burnt-cork mustache and eyebrows.

After the condescending surprise, nonrecognition, and praise, from

those who were not themselves dressed up, the young people decided that their costumes were so good that they ought to be shown elsewhere.

Nicholas, who, as the roads were in splendid condition, wanted to take them all for a drive in his troyka, proposed to take with them about
a dozen of the serf mummers and drive to "Uncle's."

"No, why disturb the old fellow?" said the countess. "Besides, you wouldn't have room to turn round there. If you must go, go to the Melyukovs'."

Melyukova was a widow, who, with her family and their tutors and governesses, lived three miles from the Rostovs.

"That's right, my dear," chimed in the old count, thoroughly aroused. "I'll dress up at once and go with them. I'll make Pashette open her eyes."

But the countess would not agree to his going; he had had a bad leg all these last days. It was decided that the count must not go, but that if Louisa Ivanovna (Madame Schoss) would go with them, the young ladies might go to the Melyukovs', Sonya, generally so timid and shy, more urgently than anyone begging Louisa Ivanovna not to refuse.

Sonya's costume was the best of all. Her mustache and eyebrows were extraordinarily becoming. Everyone told her she looked very handsome, and she was in a spirited and energetic mood unusual with
her. Some inner voice told her that now or never her fate would be decided, and in her male attire she seemed quite a different person. Louisa Ivanovna consented to go, and in half an hour four troyka sleighs with large and small bells, their runners squeaking and whistling over the frozen snow, drove up to the porch.

Natasha was foremost in setting a merry holiday tone, which, passing from one to another, grew stronger and reached its climax when they all came out into the frost and got into the sleighs, talking, calling to one another, laughing, and shouting.

Two of the troykas were the usual household sleighs, the third was the old count's with a trotter from the Orlov stud as shaft horse, the fourth was Nicholas' own with a short shaggy black shaft horse. Nicholas, in his old lady's dress over which he had belted his hussar overcoat, stood in the middle of the sleigh, reins in hand.

It was so light that he could see the moonlight reflected from the

metal harness disks and
from the eyes of the horses, who looked
round in alarm at the noisy party under the shadow of the porch roof.

Natasha, Sonya, Madame Schoss, and two maids got into Nicholas'
sleigh; Dimmler, his wife, and Petya, into the old count's, and the
rest of the mummers seated themselves in the other two sleighs.

"You go ahead, Zakhar!" shouted Nicholas to his father's coachman,
wishing for a chance to race past him.

The old count's troyka, with Dimmler and his party, started forward,
squeaking on its runners as though freezing to the snow, its
deep-toned bell clanging. The side horses, pressing against the shafts
of the middle horse, sank in the snow, which was dry and glittered
like sugar, and threw it up.

Nicholas set off, following the first sleigh; behind him the
others moved noisily, their runners squeaking. At first they drove
at a steady trot along the narrow road. While they drove past the
garden the shadows of the bare trees often fell across the road and
hid the brilliant moonlight,
but as soon as they were past the
fence, the snowy plain bathed in moonlight and motionless spread out
before them glittering like diamonds and dappled with bluish
shadows. Bang, bang! went the first sleigh over a cradle hole in the
snow of the road, and each of the other sleighs jolted in the same
way, and rudely breaking the frost-bound stillness, the troykas
began to speed along the road, one after the other.

"A hare's track, a lot of tracks!" rang out Natasha's voice
through the frost-bound air.

"How light it is, Nicholas!" came Sonya's voice.

Nicholas glanced round at Sonya, and bent down to see her face
closer. Quite a new, sweet face with black eyebrows and mustaches
peeped up at him from her sable furs--so close and yet so distant-
in the moonlight.

"That used to be Sonya," thought he, and looked at her closer and
smiled.

"What is it, Nicholas?"

"Nothing," said he and turned again to the horses.

When they came out onto the beaten highroad--polished by sleigh

runners
and cut up by rough-shod hoofs, the marks of which were visible in the moonlight--the horses began to tug at the reins of their own accord and increased their pace. The near side horse, arching his head and breaking into a short canter, tugged at his traces. The shaft horse swayed from side to side, moving his ears as if asking: "Isn't it time to begin now?" In front, already far ahead the deep bell of the sleigh ringing farther and farther off, the black horses driven by Zakhar could be clearly seen against the white snow. From that sleigh one could hear the shouts, laughter, and voices of the mummers.

"Gee up, my darlings!" shouted Nicholas, pulling the reins to one side and flourishing the whip.

It was only by the keener wind that met them and the jerks given by the side horses who pulled harder--ever increasing their gallop- that one noticed how fast the troyka was flying. Nicholas looked back. With screams squeals, and waving of whips that caused even the shaft horses to gallop--the
other sleighs followed. The shaft horse swung steadily beneath the bow over its head, with no thought of slackening pace and ready to put on speed when required.

Nicholas overtook the first sleigh. They were driving downhill and coming out upon a broad trodden track across a meadow, near a river.

"Where are we?" thought he. "It's the Kosoy meadow, I suppose. But no--this is something new I've never seen before. This isn't the Kosoy meadow nor the Demkin hill, and heaven only knows what it is! It is something new and enchanted. Well, whatever it may be..." And shouting to his horses, he began to pass the first sleigh.

Zakhar held back his horses and turned his face, which was already covered with hoarfrost to his eyebrows.

Nicholas gave the horses the rein, and Zakhar, stretching out his arms, clucked his tongue and let his horses go.

"Now, look out, master!" he cried.

Faster still the two troykas flew side by side, and faster moved the feet of the galloping side horses. Nicholas
began to draw ahead.
Zakhar, while still keeping his arms extended, raised one hand with the reins.

"No you won't, master!" he shouted.

Nicholas put all his horses to a gallop and passed Zakhar. The horses showered the fine dry snow on the faces of those in the sleigh- beside them sounded quick ringing bells and they caught confused glimpses of swiftly moving legs and the shadows of the troyka they were passing. The whistling sound of the runners on the snow and the voices of girls shrieking were heard from different sides.

Again checking his horses, Nicholas looked around him. They were still surrounded by the magic plain bathed in moonlight and spangled with stars.

"Zakhar is shouting that I should turn to the left, but why to the left?" thought Nicholas. "Are we getting to the Melyukovs'? Is this Melyukovka? Heaven only knows where we are going, and heaven knows what is happening to us--but it is very strange and pleasant whatever it is." And he looked round in the sleigh.

"Look,
his mustache and eyelashes are all white!" said one of the strange, pretty, unfamiliar people--the one with fine eyebrows and mustache.

"I think this used to be Natasha," thought Nicholas, "and that was Madame Schoss, but perhaps it's not, and this Circassian with the mustache I don't know, but I love her."

"Aren't you cold?" he asked.

They did not answer but began to laugh. Dimmler from the sleigh behind shouted something--probably something funny--but they could not make out what he said.

"Yes, yes!" some voices answered, laughing.

"But here was a fairy forest with black moving shadows, and a glitter of diamonds and a flight of marble steps and the silver roofs of fairy buildings and the shrill yells of some animals. And if this is really Melyukovka, it is still stranger that we drove heaven knows where and have come to Melyukovka," thought Nicholas.

It really was Melyukovka, and maids and footmen with merry faces came running, out to the porch carrying candles.

"Who is
it?" asked someone in the porch.

"The mummers from the count's. I know by the horses," replied some

voices.

CHAPTER XI

Pelageya Danilovna Melyukova, a broadly built, energetic woman wearing spectacles, sat in the drawing room in a loose dress, surrounded by her daughters whom she was trying to keep from feeling dull. They were quietly dropping melted wax into snow and looking at the shadows the wax figures would throw on the wall, when they heard the steps and voices of new arrivals in the vestibule.

Hussars, ladies, witches, clowns, and bears, after clearing their throats and wiping the hoarfrost from their faces in the vestibule, came into the ballroom where candles were hurriedly lighted. The clown--Dimmler--and the lady--Nicholas--started a dance. Surrounded by the screaming children the mummers, covering their faces and disguising their voices, bowed to their hostess and arranged themselves about the room.

"Dear me! there's no recognizing them! And Natasha! See whom she looks
like! She really reminds me of somebody. But Herr Dimmler--isn't he good! I didn't know him! And how he dances. Dear me, there's a Circassian. Really, how becoming it is to dear Sonya. And who is that? Well, you have cheered us up! Nikita and Vanya--clear away the tables! And we were sitting so quietly. Ha, ha, ha!... The hussar, the hussar! Just like a boy! And the legs!... I can't look at him..." different voices were saying.

Natasha, the young Melyukovs' favorite, disappeared with them into the back rooms where a cork and various dressing gowns and male garments were called for and received from the footman by bare girlish arms from behind the door. Ten minutes later, all the young Melyukovs joined the mummers.

Pelageya Danilovna, having given orders to clear the rooms for the visitors and arranged about refreshments for the gentry and the serfs, went about among the mummers without removing her spectacles, peering into their faces with a suppressed smile and failing to recognize
any of them. It was not merely Dimmler and the Rostovs she failed to recognize, she did not even recognize her own daughters, or her late husband's, dressing gowns and uniforms, which they had put

on.

"And who is is this?" she asked her governess, peering into the face of her own daughter dressed up as a Kazan-Tartar. "I suppose it is one of the Rostovs! Well, Mr. Hussar, and what regiment do you serve in?" she asked Natasha. "Here, hand some fruit jelly to the Turk!" she ordered the butler who was handing things round. "That's not forbidden by his law."

Sometimes, as she looked at the strange but amusing capers cut by the dancers, who--having decided once for all that being disguised, no one would recognize them--were not at all shy, Pelageya Danilovna hid her face in her handkerchief, and her whole stout body shook with irrepressible, kindly, elderly laughter.

"My little Sasha! Look at Sasha!" she said.

After Russian country dances and chorus dances, Pelageya Danilovna made
the serfs and gentry join in one large circle: a ring, a
string, and a silver ruble were fetched and they all played games together.

In an hour, all the costumes were crumpled and disordered. The corked eyebrows and mustaches were smeared over the perspiring, flushed, and merry faces. Pelageya Danilovna began to recognize the mummers, admired their cleverly contrived costumes, and particularly how they suited the young ladies, and she thanked them all for having entertained her so well. The visitors were invited to supper in the drawing room, and the serfs had something served to them in the ballroom.

"Now to tell one's fortune in the empty bathhouse is frightening!" said an old maid who lived with the Melyukovs, during supper.

"Why?" said the eldest Melyukov girl.

"You wouldn't go, it takes courage..."

"I'll go," said Sonya.

"Tell what happened to the young lady!" said the second Melyukov girl.

"Well," began the old maid, "a young lady once went out, took a cock, laid the table
for two, all properly, and sat down. After
sitting a while, she suddenly hears someone coming... a sleigh

drives up with harness bells; she hears him coming! He comes in, just in the shape of a man, like an officer--comes in and sits down to table with her."

"Ah! ah!" screamed Natasha, rolling her eyes with horror.

"Yes? And how... did he speak?"

"Yes, like a man. Everything quite all right, and he began persuading her; and she should have kept him talking till cockcrow, but she got frightened, just got frightened and hid her face in her hands. Then he caught her up. It was lucky the maids ran in just then..."

"Now, why frighten them?" said Pelageya Danilovna.

"Mamma, you used to try your fate yourself..." said her daughter.

"And how does one do it in a barn?" inquired Sonya.

"Well, say you went to the barn now, and listened. It depends on what you hear; hammering and knocking--that's bad; but a sound of shifting grain is good and one sometimes hears that, too."

"Mamma, tell
us what happened to you in the barn."

Pelageya Danilovna smiled.

"Oh, I've forgotten..." she replied. "But none of you would go?"

"Yes, I will; Pelageya Danilovna, let me! I'll go," said Sonya.

"Well, why not, if you're not afraid?"

"Louisa Ivanovna, may I?" asked Sonya.

Whether they were playing the ring and string game or the ruble game or talking as now, Nicholas did not leave Sonya's side, and gazed at her with quite new eyes. It seemed to him that it was only today, thanks to that burnt-cork mustache, that he had fully learned to know her. And really, that evening, Sonya was brighter, more animated, and prettier than Nicholas had ever seen her before.

"So that's what she is like; what a fool I have been!" he thought gazing at her sparkling eyes, and under the mustache a happy rapturous smile dimpled her cheeks, a smile he had never seen before.

"I'm not afraid of anything," said Sonya. "May I go at once?" She got up.

They told her where the barn was and how she should stand and listen, and they handed her a fur cloak. She threw this over her head and shoulders and glanced at Nicholas.

"What a darling that girl is!" thought he. "And what have I been thinking of till now?"

Sonya went out into the passage to go to the barn. Nicholas went hastily to the front porch, saying he felt too hot. The crowd of people really had made the house stuffy.

Outside, there was the same cold stillness and the same moon, but even brighter than before. The light was so strong and the snow sparkled with so many stars that one did not wish to look up at the sky and the real stars were unnoticed. The sky was black and dreary, while the earth was gay.

"I am a fool, a fool! what have I been waiting for?" thought Nicholas, and running out from the porch he went round the corner of the house and along the path that led to the back porch. He knew Sonya would pass that way. Halfway lay some snow-covered piles of firewood and across and along them a network of shadows from the bare old lime trees fell on the snow and on the path. This path led to the barn. The log walls of the barn and its snow-covered roof, that looked as if hewn out of some precious stone, sparkled in the moonlight. A tree in the garden snapped with the frost, and then all was again perfectly silent. His bosom seemed to inhale not air but the strength of eternal youth and gladness.

From the back porch came the sound of feet descending the steps, the bottom step upon which snow had fallen gave a ringing creak and he heard the voice of an old maidservant saying, "Straight, straight, along the path, Miss. Only, don't look back."

"I am not afraid," answered Sonya's voice, and along the path toward Nicholas came the crunching, whistling sound of Sonya's feet in her thin shoes.

Sonya came along, wrapped in her cloak. She was only a couple of paces away when she saw him, and to her too he was not the Nicholas she had known and always slightly feared. He was in a woman's dress, with tousled hair

and a happy smile new to Sonya. She ran rapidly
toward him.

"Quite different and yet the same," thought Nicholas, looking at her face all lit up by the moonlight. He slipped his arms under the cloak that covered her head, embraced her, pressed her to him, and kissed her on the lips that wore a mustache and had a smell of burnt cork. Sonya kissed him full on the lips, and disengaging her little hands pressed them to his cheeks.

"Sonya!... Nicholas!"... was all they said. They ran to the barn and then back again, re-entering, he by the front and she by the back porch.

CHAPTER XII

When they all drove back from Pelageya Danilovna's, Natasha, who always saw and noticed everything, arranged that she and Madame Schoss should go back in the sleigh with Dimmler, and Sonya with Nicholas and the maids.

On the way back Nicholas drove at a steady pace instead of racing and kept peering by that fantastic all-transforming light into Sonya's face and searching beneath the eyebrows and mustache
for his former
and his present Sonya from whom he had resolved never to be parted again. He looked and recognizing in her both the old and the new Sonya, and being reminded by the smell of burnt cork of the sensation of her kiss, inhaled the frosty air with a full breast and, looking at the ground flying beneath him and at the sparkling sky, felt himself again in fairyland.

"Sonya, is it well with thee?" he asked from time to time.

"Yes!" she replied. "And with thee?"

When halfway home Nicholas handed the reins to the coachman and ran for a moment to Natasha's sleigh and stood on its wing.

"Natasha!" he whispered in French, "do you know I have made up my mind about Sonya?"

"Have you told her?" asked Natasha, suddenly beaming all over with

joy.

"Oh, how strange you are with that mustache and those eyebrows!... Natasha--are you glad?"

"I am so glad, so glad! I was beginning to be vexed with you. I did not tell you, but you have been treating her badly. What a heart she has, Nicholas!
I am horrid sometimes, but I was ashamed to be happy while Sonya was not," continued Natasha. "Now I am so glad! Well, run back to her."

"No, wait a bit.... Oh, how funny you look!" cried Nicholas, peering into her face and finding in his sister too something new, unusual, and bewitchingly tender that he had not seen in her before.
"Natasha, it's magical, isn't it?"

"Yes," she replied. "You have done splendidly."

"Had I seen her before as she is now," thought Nicholas, "I should long ago have asked her what to do and have done whatever she told me, and all would have been well."

"So you are glad and I have done right?"

"Oh, quite right! I had a quarrel with Mamma some time ago about it. Mamma said she was angling for you. How could she say such a thing! I nearly stormed at Mamma. I will never let anyone say anything bad of Sonya, for there is nothing but good in her."

"Then it's all right?" said Nicholas, again scrutinizing the expression of his sister's face to see if she
was in earnest. Then
he jumped down and, his boots scrunching the snow, ran back to his sleigh. The same happy, smiling Circassian, with mustache and beaming eyes looking up from under a sable hood, was still sitting there, and that Circassian was Sonya, and that Sonya was certainly his future happy and loving wife.

When they reached home and had told their mother how they had spent the evening at the Melyukovs', the girls went to their bedroom. When they had undressed, but without washing off the cork mustaches, they sat a long time talking of their happiness. They talked of how they would live when they were married, how their husbands would be friends, and how happy they would be. On Natasha's table stood two looking glasses which Dunyasha had prepared beforehand.

"Only when will all that be? I am afraid never.... It would be too good!" said Natasha, rising and going to the looking glasses.

"Sit down, Natasha; perhaps you'll see him," said Sonya.

Natasha lit the candles, one on each side of one of the looking glasses, and sat down.

"I see someone with a mustache," said Natasha, seeing her own face.

"You mustn't laugh, Miss," said Dunyasha.

With Sonya's help and the maid's, Natasha got the glass she held into the right position opposite the other; her face assumed a serious expression and she sat silent. She sat a long time looking at the receding line of candles reflected in the glasses and expecting (from tales she had heard) to see a coffin, or him, Prince Andrew, in that last dim, indistinctly outlined square. But ready as she was to take the smallest speck for the image of a man or of a coffin, she saw nothing. She began blinking rapidly and moved away from the looking glasses.

"Why is it others see things and I don't?" she said. "You sit down now, Sonya. You absolutely must, tonight! Do it for me.... Today I feel so frightened!"

Sonya sat down before the glasses, got the right position, and began looking.

"Now, Miss Sonya is sure to see something," whispered Dunyasha; "while you do nothing but laugh."

Sonya heard this and Natasha's whisper:

"I know she will. She saw something last year."

For about three minutes all were silent.

"Of course she will!" whispered Natasha, but did not finish... suddenly Sonya pushed away the glass she was holding and covered her eyes with her hand.

"Oh, Natasha!" she cried.

"Did you see? Did you? What was it?" exclaimed Natasha, holding up the looking glass.

Sonya had not seen anything, she was just wanting to blink and to get up when she heard Natasha say, "Of course she will!" She did not wish to disappoint either Dunyasha or Natasha, but it was hard to sit still. She did not herself know how or why the exclamation escaped her when she covered her eyes.

"You saw him?" urged Natasha, seizing her hand.

"Yes. Wait a bit... I... saw him," Sonya could not help saying, not yet knowing whom Natasha meant by him, Nicholas or Prince Andrew.

"But why shouldn't I say I saw something? Others do see! Besides who can tell whether I saw anything or not?" flashed through Sonya's mind.

"Yes, I saw him," she said.

"How? Standing or lying?"

"No, I saw... At first there was nothing, then I saw him lying down."

"Andrew lying? Is he ill?" asked Natasha, her frightened eyes fixed on her friend.

"No, on the contrary, on the contrary! His face was cheerful, and he turned to me." And when saying this she herself fancied she had really seen what she described.

"Well, and then, Sonya?..."

"After that, I could not make out what there was; something blue and red..."

"Sonya! When will he come back? When shall I see him! O, God, how afraid I am for him and for myself and about everything!..." Natasha began, and without replying to Sonya's words of comfort she got into bed, and long after her candle was out lay open-eyed and motionless, gazing at the moonlight through the frosty windowpanes.

CHAPTER XIII

Soon after the Christmas holidays Nicholas told his mother of his love for Sonya and of his firm resolve to marry her. The countess, who had long noticed what was going on between them and was expecting this declaration, listened to him in silence and then told her son that he might marry whom he pleased, but that neither she nor his father would give their blessing to such a marriage. Nicholas, for the first time, felt that his mother was displeased with him and that, despite her love for him, she would not give way. Coldly, without looking at her son, she sent for her husband and, when he came, tried briefly and coldly to inform him of the facts, in her son's presence, but unable to restrain herself she burst into tears of vexation and left the room. The old count began irresolutely to admonish Nicholas and beg him to abandon his purpose. Nicholas replied that he could not go back on his word, and his father, sighing and evidently disconcerted, very soon became silent and went in to the countess. In all his encounters with his son, the count was always conscious of his own guilt toward him for having wasted the family fortune, and so he could not be angry with him for refusing to marry an heiress and choosing the dowerless Sonya. On this occasion, he was only more vividly conscious of the fact that if his affairs had not been in disorder, no better wife for Nicholas than Sonya could have been wished for, and that no one but himself with his Mitenka and his uncomfortable habits was to blame for the condition of the family finances.

The father and mother did not speak of the matter to their son again, but a few days later the countess sent for Sonya and, with a cruelty neither of them expected, reproached her niece for trying to catch Nicholas and for ingratitude. Sonya listened silently with downcast eyes to the countess' cruel words, without understanding what was required of her. She was ready to sacrifice everything for her benefactors. Self-sacrifice was her most cherished idea but in this case she could not see what she ought to sacrifice, or for whom. She could not help loving the countess and the whole Rostov family, but neither could she help loving Nicholas and knowing that his happiness depended on that love. She was silent and sad and did not reply. Nicholas felt the situation to be intolerable and went to have an explanation with his mother. He first implored her to forgive him and Sonya and consent to their marriage, then he threatened that if she molested Sonya he would at once marry her secretly.

The countess, with a coldness her son had never seen in her before, replied that he was of age, that Prince Andrew was marrying without his father's consent, and he could do the same, but that she

would never receive that intriguer as her daughter.

Exploding at the word intriguer, Nicholas, raising his voice, told his mother he had never expected her to try to force him to sell his feelings, but if that were so, he would say for the last time....
But he had no time to utter the decisive word which the expression of
his face caused his mother to await with terror, and which would perhaps have forever remained a cruel memory to them both. He had not time to say it, for Natasha, with a pale and set face, entered the room from the door at which she had been listening.

"Nicholas, you are talking nonsense! Be quiet, be quiet, be quiet, I tell you!..." she almost screamed, so as to drown his voice.

"Mamma darling, it's not at all so... my poor, sweet darling," she said to her mother, who conscious that they had been on the brink of a rupture gazed at her son with terror, but in the obstinacy and excitement of the conflict could not and would not give way.

"Nicholas, I'll explain to you. Go away! Listen, Mamma darling," said Natasha.

Her words were incoherent, but they attained the purpose at which she was aiming.

The countess, sobbing heavily, hid her face on her daughter's breast, while Nicholas rose, clutching his head, and left the room.

Natasha set to work to effect a reconciliation, and so far
succeeded
that Nicholas received a promise from his mother that Sonya should not be troubled, while he on his side promised not to undertake anything without his parents' knowledge.

Firmly resolved, after putting his affairs in order in the regiment, to retire from the army and return and marry Sonya, Nicholas, serious, sorrowful, and at variance with his parents, but, as it seemed to him, passionately in love, left at the beginning of January to rejoin his regiment.

After Nicholas had gone things in the Rostov household were more depressing than ever, and the countess fell ill from mental agitation.

Sonya was unhappy at the separation from Nicholas and still more so on account of the hostile tone the countess could not help adopting toward her. The count was more perturbed than ever by the condition of his affairs, which called for some decisive action. Their town house

and estate near Moscow had inevitably to be sold, and for this they had to go to Moscow. But the countess' health obliged them to delay their departure from day to day.

Natasha, who had borne the first period of separation from her betrothed lightly and even cheerfully, now grew more agitated and impatient every day. The thought that her best days, which she would have employed in loving him, were being vainly wasted, with no advantage to anyone, tormented her incessantly. His letters for the most part irritated her. It hurt her to think that while she lived only in the thought of him, he was living a real life, seeing new places and new people that interested him. The more interesting his letters were the more vexed she felt. Her letters to him, far from giving her any comfort, seemed to her a wearisome and artificial obligation. She could not write, because she could not conceive the possibility of expressing sincerely in a letter even a thousandth part of what she expressed by voice, smile, and glance. She wrote to him formal, monotonous, and dry letters, to which she attached no importance herself, and in the rough copies of which the countess corrected her mistakes in spelling.

There was still no improvement in the countess' health, but it was impossible to defer the journey to Moscow any longer. Natasha's trousseau had to be ordered and the house sold. Moreover, Prince Andrew was expected in Moscow, where old Prince Bolkonski was spending the winter, and Natasha felt sure he had already arrived.

So the countess remained in the country, and the count, taking Sonya and Natasha with him, went to Moscow at the end of January.

BOOK EIGHT: 1811 --12

CHAPTER I

After Prince Andrews engagement to Natasha, Pierre without any apparent cause suddenly felt it impossible to go on living as before. Firmly convinced as he was of the truths revealed to him by his benefactor, and happy as he had been in perfecting his inner

man, to which he had devoted himself with such ardor--all the zest of such a life vanished after the engagement of Andrew and Natasha and the death of
Joseph Alexeevich, the news of which reached him almost at the same time. Only the skeleton of life remained: his house, a brilliant wife who now enjoyed the favors of a very important personage, acquaintance with all Petersburg, and his court service with its dull formalities. And this life suddenly seemed to Pierre unexpectedly loathsome. He ceased keeping a diary, avoided the company of the Brothers, began going to the Club again, drank a great deal, and came once more in touch with the bachelor sets, leading such a life that the Countess Helene thought it necessary to speak severely to him about it. Pierre felt that she right, and to avoid compromising her went away to Moscow.

In Moscow as soon as he entered his huge house in which the faded and fading princesses still lived, with its enormous retinue; as soon as, driving through the town, he saw the Iberian shrine with innumerable tapers burning before the golden covers of the icons, the Kremlin Square with its snow undisturbed
by vehicles, the sleigh
drivers and hovels of the Sivtsev Vrazhok, those old Moscovites who desired nothing, hurried nowhere, and were ending their days leisurely; when he saw those old Moscow ladies, the Moscow balls, and the English Club, he felt himself at home in a quiet haven. In Moscow he felt at peace, at home, warm and dirty as in an old dressing gown.

Moscow society, from the old women down to the children, received Pierre like a long-expected guest whose place was always ready awaiting him. For Moscow society Pierre was the nicest, kindest, most intellectual, merriest, and most magnanimous of cranks, a heedless, genial nobleman of the old Russian type. His purse was always empty because it was open to everyone.

Benefit performances, poor pictures, statues, benevolent societies, gypsy choirs, schools, subscription dinners, sprees, Freemasons, churches, and books--no one and nothing met with a refusal from him, and had it not been for two friends who had borrowed large sums from
him and taken him under their protection, he would have given everything away. There was never a dinner or soiree at the Club without him. As soon as he sank into his place on the sofa after two bottles of Margaux he was surrounded, and talking, disputing, and joking began. When there were quarrels, his kindly smile and well-timed jests reconciled the antagonists. The Masonic dinners were dull and dreary when he was not there.

When after a bachelor supper he rose with his amiable and kindly smile, yielding to the entreaties of the festive company to drive off somewhere with them, shouts of delight and triumph arose among the young men. At balls he danced if a partner was needed. Young ladies, married and unmarried, liked him because without making love to any of them, he was equally amiable to all, especially after supper. "Il est charmant; il n'a pas de sexe,"* they said of him.

*"He is charming; he has no sex."

Pierre was one of those retired gentlemen-in-waiting of whom there were
hundreds good-humoredly ending their days in Moscow.

How horrified he would have been seven years before, when he first arrived from abroad, had he been told that there was no need for him to seek or plan anything, that his rut had long been shaped, eternally predetermined, and that wriggle as he might, he would be what all in his position were. He could not have believed it! Had he not at one time longed with all his heart to establish a republic in Russia; then himself to be a Napoleon; then to be a philosopher; and then a strategist and the conqueror of Napoleon? Had he not seen the possibility of, and passionately desired, the regeneration of the sinful human race, and his own progress to the highest degree of perfection? Had he not established schools and hospitals and liberated his serfs?

But instead of all that--here he was, the wealthy husband of an unfaithful wife, a retired gentleman-in-waiting, fond of eating and drinking and, as he unbuttoned his waistcoat, of abusing
the
government a bit, a member of the Moscow English Club, and a universal favorite in Moscow society. For a long time he could not reconcile himself to the idea that he was one of those same retired Moscow gentlemen-in-waiting he had so despised seven years before.

Sometimes he consoled himself with the thought that he was only living this life temporarily; but then he was shocked by the thought of how many, like himself, had entered that life and that Club temporarily, with all their teeth and hair, and had only left it when not a single tooth or hair remained.

In moments of pride, when he thought of his position it seemed to him that he was quite different and distinct from those other retired gentlemen-in-waiting he had formerly despised: they were empty, stupid, contented fellows, satisfied with their position,

"while I am still discontented and want to do something for mankind. But perhaps all these comrades of mine struggled just like me and sought something new, a path in life of their own, and like me were brought by force of circumstances, society, and race--by that elemental force against which man is powerless--to the condition I am in," said he to himself in moments of humility; and after living some time in Moscow he no longer despised, but began to grow fond of, to respect, and to pity his comrades in destiny, as he pitied himself.

Pierre longer suffered moments of despair, hypochondria, and disgust with life, but the malady that had formerly found expression in such acute attacks was driven inwards and never left him for a moment. "What for? Why? What is going on in the world?" he would ask himself in perplexity several times a day, involuntarily beginning to reflect anew on the meaning of the phenomena of life; but knowing by experience that there were no answers to these questions he made haste to turn away from them, and took up a book, or hurried of to the Club or to Apollon Nikolaevich's, to exchange the gossip of the town.

"Helene, who has never cared for anything but her own body and is one of the stupidest women in the world," thought Pierre, "is regarded by people as the acme of intelligence and refinement, and they pay homage to her. Napoleon Bonaparte was despised by all as long as he was great, but now that he has become a wretched comedian the Emperor Francis wants to offer him his daughter in an illegal marriage. The Spaniards, through the Catholic clergy, offer praise to God for their victory over the French on the fourteenth of June, and the French, also through the Catholic clergy, offer praise because on that same fourteenth of June they defeated the Spaniards. My brother Masons swear by the blood that they are ready to sacrifice everything for their neighbor, but they do not give a ruble each to the collections for the poor, and they intrigue, the Astraea Lodge against the Manna Seekers, and fuss about an authentic Scotch carpet and a charter that nobody needs, and the meaning of which the very man who wrote it does not understand. We all profess the Christian law of forgiveness of injuries and love of our neighbors, the law in honor of which we have built in Moscow forty times forty churches--but yesterday a deserter was knouted to death and a minister of that same law of love and forgiveness, a priest, gave the soldier a cross to kiss before his execution." So thought Pierre, and the whole of this general deception which everyone accepts, accustomed as he was to it, astonished him each time as if it were something new. "I understand the deception and confusion," he thought, "but how am I to tell them all that I see? I have tried, and have always found

that they too in the depths of their souls understand it as I do, and only try not to see it. So it appears that it must be so! But I- what is to become of me?" thought he. He had the unfortunate capacity many men, especially Russians, have of seeing and believing in the possibility of goodness and truth, but of seeing the evil and falsehood
of life too clearly to be able to take a serious part in it.
Every sphere of work was connected, in his eyes, with evil and deception. Whatever he tried to be, whatever he engaged in, the evil and falsehood of it repulsed him and blocked every path of activity. Yet he had to live and to find occupation. It was too dreadful to be under the burden of these insoluble problems, so he abandoned himself to any distraction in order to forget them. He frequented every kind of society, drank much, bought pictures, engaged in building, and above all--read.

He read, and read everything that came to hand. On coming home, while his valets were still taking off his things, he picked up a book and began to read. From reading he passed to sleeping, from sleeping to gossip in drawing rooms of the Club, from gossip to carousals and women; from carousals back to gossip, reading, and wine. Drinking became more and more a physical and also a moral necessity. Though the doctors warned him that with
his corpulence wine was dangerous for
him, he drank a great deal. He was only quite at ease when having poured several glasses of wine mechanically into his large mouth he felt a pleasant warmth in his body, an amiability toward all his fellows, and a readiness to respond superficially to every idea without probing it deeply. Only after emptying a bottle or two did he feel dimly that the terribly tangled skein of life which previously had terrified him was not as dreadful as he had thought. He was always conscious of some aspect of that skein, as with a buzzing in his head after dinner or supper he chatted or listened to conversation or read. But under the influence of wine he said to himself: "It doesn't matter. I'll get it unraveled. I have a solution ready, but have no time now--I'll think it all out later on!" But the later on never came.

In the morning, on an empty stomach, all the old questions appeared as insoluble and terrible as ever, and Pierre hastily picked up a book, and
if anyone came to see him he was glad.

Sometimes he remembered how he had heard that soldiers in war when entrenched under the enemy's fire, if they have nothing to do, try hard to find some occupation the more easily to bear the danger. To Pierre all men seemed like those soldiers, seeking refuge from life: some in ambition, some in cards, some in framing laws, some in

women, some in toys, some in horses, some in politics, some in sport, some in wine, and some in governmental affairs. "Nothing is trivial, and nothing is important, it's all the same--only to save oneself from it as best one can," thought Pierre. "Only not to see it, that dreadful it!"

CHAPTER II

At the beginning of winter Prince Nicholas Bolkonski and his daughter moved to Moscow. At that time enthusiasm for the Emperor Alexander's regime had weakened and a patriotic and anti-French tendency prevailed there, and this, together with his past and his intellect and his originality, at once made Prince Nicholas Bolkonski
an object of particular respect to the Moscovites and the center of the Moscow opposition to the government.

The prince had aged very much that year. He showed marked signs of senility by a tendency to fall asleep, forgetfulness of quite recent events, remembrance of remote ones, and the childish vanity with which he accepted the role of head of the Moscow opposition. In spite of this the old man inspired in all his visitors alike a feeling of respectful veneration--especially of an evening when he came in to tea in his old-fashioned coat and powdered wig and, aroused by anyone, told his abrupt stories of the past, or uttered yet more abrupt and scathing criticisms of the present. For them all, that old-fashioned house with its gigantic mirrors, pre-Revolution furniture, powdered footmen, and the stern shrewd old man (himself a relic of the past century) with his gentle daughter and the pretty Frenchwoman who were reverently devoted to him presented a majestic and agreeable spectacle.
But the visitors did not reflect that besides the couple of hours during which they saw their host, there were also twenty-two hours in the day during which the private and intimate life of the house continued.

Latterly that private life had become very trying for Princess Mary. There in Moscow she was deprived of her greatest pleasures--talks with the pilgrims and the solitude which refreshed her at Bald Hills--and she had none of the advantages and pleasures of city life. She did not go out into society; everyone knew that her father would not let her go anywhere without him, and his failing health prevented his going out himself, so that she was not invited to dinners and evening

parties. She had quite abandoned the hope of getting married. She saw the coldness and malevolence with which the old prince received and dismissed the young men, possible suitors, who sometimes appeared at their house. She had no friends: during this visit to Moscow she had been disappointed in the
two who had been nearest to
her. Mademoiselle Bourienne, with whom she had never been able to be quite frank, had now become unpleasant to her, and for various reasons Princess Mary avoided her. Julie, with whom she had corresponded for the last five years, was in Moscow, but proved to be quite alien to her when they met. Just then Julie, who by the death of her brothers had become one of the richest heiresses in Moscow, was in the full whirl of society pleasures. She was surrounded by young men who, she fancied, had suddenly learned to appreciate her worth. Julie was at that stage in the life of a society woman when she feels that her last chance of marrying has come and that her fate must be decided now or never. On Thursdays Princess Mary remembered with a mournful smile that she now had no one to write to, since Julie--whose presence gave her no pleasure was here and they met every week. Like the old emigre who declined to marry the lady with whom he had spent his evenings for years,
she regretted Julie's presence and having no one
to write to. In Moscow Princess Mary had no one to talk to, no one to whom to confide her sorrow, and much sorrow fell to her lot just then. The time for Prince Andrew's return and marriage was approaching, but his request to her to prepare his father for it had not been carried out; in fact, it seemed as if matters were quite hopeless, for at every mention of the young Countess Rostova the old prince (who apart from that was usually in a bad temper) lost control of himself. Another lately added sorrow arose from the lessons she gave her six year-old nephew. To her consternation she detected in herself in relation to little Nicholas some symptoms of her father's irritability. However often she told herself that she must not get irritable when teaching her nephew, almost every time that, pointer in hand, she sat down to show him the French alphabet, she so longed to pour her own knowledge quickly and easily into the child--who was already
afraid that Auntie might at any moment get angry--that at
his slightest inattention she trembled, became flustered and heated, raised her voice, and sometimes pulled him by the arm and put him in the corner. Having put him in the corner she would herself begin to cry over her cruel, evil nature, and little Nicholas, following her example, would sob, and without permission would leave his corner, come to her, pull her wet hands from her face, and comfort her. But what distressed the princess most of all was her father's irritability, which was always directed against her and had of late amounted to cruelty. Had he forced her to prostrate herself to the ground all night, had he beaten her or made her fetch wood or water,

it would never have entered her mind to think her position hard; but this loving despot--the more cruel because he loved her and for that reason tormented himself and her--knew how not merely to hurt and humiliate her deliberately, but to show her that she was always to blame for everything. Of late he had exhibited a new trait that tormented Princess Mary more than anything else; this was his ever-increasing intimacy with Mademoiselle Bourienne. The idea that at the first moment of receiving the news of his son's intentions had occurred to him in jest--that if Andrew got married he himself would marry Bourienne--had evidently pleased him, and latterly he had persistently, and as it seemed to Princess Mary merely to offend her, shown special endearments to the companion and expressed his dissatisfaction with his daughter by demonstrations of love of Bourienne.

One day in Moscow in Princess Mary's presence (she thought her father did it purposely when she was there) the old prince kissed Mademoiselle Bourienne's hand and, drawing her to him, embraced her affectionately. Princess Mary flushed and ran out of the room. A few minutes later Mademoiselle Bourienne came into Princess Mary's room smiling and making cheerful remarks in her agreeable voice. Princess Mary hastily wiped away her tears, went resolutely up to Mademoiselle Bourienne, and evidently unconscious of what she was doing began shouting in angry haste at the Frenchwoman, her voice breaking: "It's horrible, vile, inhuman, to take advantage of the weakness..." She did not finish. "Leave my room," she exclaimed, and burst into sobs.

Next day the prince did not say a word to his daughter, but she noticed that at dinner he gave orders that Mademoiselle Bourienne should be served first. After dinner, when the footman handed coffee and from habit began with the princess, the prince suddenly grew furious, threw his stick at Philip, and instantly gave instructions to have him conscripted for the army.

"He doesn't obey... I said it twice... and he doesn't obey! She is the first person in this house; she's my best friend," cried the prince. "And if you allow yourself," he screamed in a fury, addressing Princess Mary for the first time, "to forget yourself again before her as you dared to do yesterday, I will show you who is master in this house. Go! Don't let me set eyes on you; beg her pardon!"

Princess Mary asked Mademoiselle Bourienne's pardon, and also her father's pardon for herself and for Philip the footman, who had begged for her intervention.

At such moments something like a pride of sacrifice gathered in her soul. And suddenly that father whom she had judged would look for his spectacles in her presence, fumbling near them and not seeing them, or would forget something that had just occurred, or take a false step with his failing legs and turn to see if anyone had noticed his feebleness, or, worst of all, at dinner when there were no visitors to excite him would suddenly fall asleep, letting his napkin drop and his shaking head sink over his plate. "He is old and feeble, and I dare to condemn him!" she thought at such moments, with a feeling of revulsion against herself.

CHAPTER III

In 1811 there was living in Moscow a French doctor--Metivier--who had rapidly become the fashion. He was enormously tall, handsome, amiable as Frenchmen are, and was, as all Moscow said, an extraordinarily clever doctor. He was received in the best houses not merely as a doctor, but as an equal.

Prince Nicholas had always ridiculed medicine, but latterly on Mademoiselle Bourienne's advice had allowed this doctor to visit him and had grown accustomed to him. Metivier came to see the prince about twice a week.

On December 6--St. Nicholas' Day and the prince's name day--all Moscow came to the prince's front door but he gave orders to admit no one and to invite to dinner only a small number, a list of whom he gave to Princess Mary.

Metivier, who came in the morning with his felicitations, considered it proper in his quality of doctor de forcer la consigne,* as he told Princess Mary, and went in to see the prince. It happened that on that morning of his name day the prince was in one of his worst moods. He had been going about the house all the morning finding fault with everyone and pretending not to understand what was said to him and not to be understood himself. Princess Mary well knew this mood of quiet absorbed querulousness, which generally culminated in a burst of rage, and she went about all that morning as though facing a cocked and loaded gun and awaited the inevitable explosion. Until the doctor's arrival the morning had passed off safely. After admitting the doctor,

Princess Mary sat down with a book in the drawing room near the door through which she could hear all that passed in the study.

*To force the guard.

At first she heard only Metivier's voice, then her father's, then both voices began speaking at the same time, the door was flung open, and on the threshold appeared the handsome figure of the terrified Metivier with his shock of black hair, and the prince in his dressing gown and fez, his face distorted with fury and the pupils of his eyes rolled downwards.

"You don't understand?" shouted the prince, "but I do! French spy, slave of Buonaparte, spy, get out of my house! Be off, I tell you..."

Metivier, shrugging his shoulders, went up to Mademoiselle Bourienne who at the sound of shouting had run in from an adjoining room.

"The prince is not very well: bile and rush of blood to the head. Keep calm, I will call again tomorrow," said Metivier; and putting his fingers to his lips he hastened away.

Through the study door came the sound of slippered feet and the cry: "Spies, traitors, traitors everywhere! Not a moment's peace in my own house!"

After Metivier's departure the old prince called his daughter in, and the whole weight of his wrath fell on her. She was to blame that a spy had been admitted. Had he not told her, yes, told her to make a list, and not to admit anyone who was not on that list? Then why was that scoundrel admitted? She was the cause of it all. With her, he said, he could not have a moment's peace and could not die quietly.

"No, ma'am! We must part, we must part! Understand that, understand it! I cannot endure any more," he said, and left the room. Then, as if afraid she might find some means of consolation, he returned and trying to appear calm added: "And don't imagine I have said this in a moment of anger. I am calm. I have thought it over, and it will be carried out--we must part; so find some place for yourself...." But he could not restrain himself and with the virulence of which only one who loves is capable, evidently suffering himself, he shook his fists at her and screamed:

"If only some fool would marry her!" Then he slammed the door,

sent for Mademoiselle Bourienne, and subsided into his study.

At two o'clock the six chosen guests assembled for dinner.

These guests--the famous Count Rostopchin, Prince Lopukhin with his nephew, General Chatrov an old war comrade of the prince's, and of the younger generation Pierre and Boris Drubetskoy--awaited the prince in the drawing room.

Boris, who had come to Moscow on leave a few days before, had been anxious to be presented to Prince Nicholas Bolkonski, and had contrived to ingratiate himself so well that the old prince in his case made an exception to the rule of not receiving bachelors in his house.

The prince's house did not belong to what is known as fashionable society, but his little circle--though not much talked about in town--was one it was more flattering to be received in than any other. Boris had realized this the week before when the commander in chief in his presence invited Rostopchin to dinner on St. Nicholas' Day, and Rostopchin had replied that he could not come:

"On that day I always go to pay my devotions to the relics of Prince Nicholas Bolkonski."

"Oh, yes, yes!" replied the commander in chief. "How is he?..."

The small group that assembled before dinner in the lofty old-fashioned drawing room with its old furniture resembled the solemn gathering of a court of justice. All were silent or talked in low tones. Prince Nicholas came in serious and taciturn. Princess Mary seemed even quieter and more diffident than usual. The guests were reluctant to address her, feeling that she was in no mood for their conversation. Count Rostopchin alone kept the conversation going, now relating the latest town news, and now the latest political gossip.

Lopukhin and the old general occasionally took part in the conversation. Prince Bolkonski listened as a presiding judge receives a report, only now and then, silently or by a brief word, showing that he took heed of what was being reported to him. The tone of the conversation was such as indicated that no one approved of what was being done in the political world. Incidents were related evidently confirming the opinion that everything was going from bad to worse, but whether telling a story or giving an opinion the speaker always stopped, or was stopped, at the point beyond which his

criticism might touch the sovereign himself.

At dinner the talk turned on the latest political news:
Napoleon's
seizure of the Duke of Oldenburg's territory, and the Russian Note,
hostile to Napoleon, which had been sent to all the European courts.

"Bonaparte treats Europe as a pirate does a captured vessel," said
Count Rostopchin, repeating a phrase he had uttered several times
before. "One only wonders at the long-suffering or blindness of the
crowned heads. Now the Pope's turn has come and Bonaparte doesn't
scruple to depose the head of the Catholic Church--yet all keep
silent! Our sovereign alone has protested against the seizure of the
Duke of Oldenburg's territory, and even..." Count Rostopchin paused,
feeling that he had reached the limit beyond which censure was
impossible.

"Other territories have been offered in exchange for the Duchy of
Oldenburg," said Prince Bolkonski. "He shifts the Dukes about as I
might move my serfs from Bald Hills to Bogucharovo or my Ryazan
estates."

"The Duke of Oldenburg bears his misfortunes with admirable strength
of character and resignation,"
remarked Boris, joining in
respectfully.

He said this because on his journey from Petersburg he had had the
honor of being presented to the Duke. Prince Bolkonski glanced at
the young man as if about to say something in reply, but changed his
mind, evidently considering him too young.

"I have read our protests about the Oldenburg affair and was
surprised how badly the Note was worded," remarked Count Rostopchin in
the casual tone of a man dealing with a subject quite familiar to him.

Pierre looked at Rostopchin with naive astonishment, not
understanding why he should be disturbed by the bad composition of the
Note.

"Does it matter, Count, how the Note is worded," he asked, "so
long as its substance is forcible?"

"My dear fellow, with our five hundred thousand troops it should
be easy to have a good style," returned Count Rostopchin.

Pierre now understood the count's dissatisfaction with the wording
of the Note.

"One would have thought quill drivers enough had sprung up," remarked
the old prince. "There in Petersburg they are always writing-
not notes only but even new laws. My Andrew there has written a
whole volume of laws for Russia. Nowadays they are always writing!"
and he laughed unnaturally.

There was a momentary pause in the conversation; the old general
cleared his throat to draw attention.

"Did you hear of the last event at the review in Petersburg? The
figure cut by the new French ambassador."

"Eh? Yes, I heard something: he said something awkward in His
Majesty's presence."

"His Majesty drew attention to the Grenadier division and to the
march past," continued the general, "and it seems the ambassador
took no notice and allowed himself to reply that: 'We in France pay no
attention to such trifles!' The Emperor did not condescend to reply.
At the next review, they say, the Emperor did not once deign to
address him."

All were silent. On this fact relating to the Emperor personally, it
was impossible to pass any judgment.

"Impudent fellows!"
said the prince. "You know Metivier? I turned
him out of my house this morning. He was here; they admitted him spite
of my request that they should let no one in," he went on, glancing
angrily at his daughter.

And he narrated his whole conversation with the French doctor and
the reasons that convinced him that Metivier was a spy. Though these
reasons were very insufficient and obscure, no one made any rejoinder.

After the roast, champagne was served. The guests rose to
congratulate the old prince. Princess Mary, too, went round to him.

He gave her a cold, angry look and offered her his wrinkled,
clean-shaven cheek to kiss. The whole expression of his face told
her that he had not forgotten the morning's talk, that his decision
remained in force, and only the presence of visitors hindered his
speaking of it to her now.

When they went into the drawing room where coffee was served, the
old men sat together.

Prince Nicholas grew more animated and expressed his views on the impending
war.

He said that our wars with Bonaparte would be disastrous so long as we sought alliances with the Germans and thrust ourselves into European affairs, into which we had been drawn by the Peace of Tilsit. "We ought not to fight either for or against Austria. Our political interests are all in the East, and in regard to Bonaparte the only thing is to have an armed frontier and a firm policy, and he will never dare to cross the Russian frontier, as was the case in 1807!"

"How can we fight the French, Prince?" said Count Rostopchin. "Can we arm ourselves against our teachers and divinities? Look at our youths, look at our ladies! The French are our Gods: Paris is our Kingdom of Heaven."

He began speaking louder, evidently to be heard by everyone.

"French dresses, French ideas, French feelings! There now, you turned Metivier out by the scruff of his neck because he is a Frenchman and a scoundrel, but our ladies crawl after him on their knees. I went to a party last night, and there
out of five ladies
three were Roman Catholics and had the Pope's indulgence for doing woolwork on Sundays. And they themselves sit there nearly naked, like the signboards at our Public Baths if I may say so. Ah, when one looks at our young people, Prince, one would like to take Peter the Great's old cudgel out of the museum and belabor them in the Russian way till all the nonsense jumps out of them."

All were silent. The old prince looked at Rostopchin with a smile and wagged his head approvingly.

"Well, good-by, your excellency, keep well!" said Rostopchin, getting up with characteristic briskness and holding out his hand to the prince.

"Good-by, my dear fellow.... His words are music, I never tire of hearing him!" said the old prince, keeping hold of the hand and offering his cheek to be kissed.

Following Rostopchin's example the others also rose.

CHAPTER IV

Princess Mary as she sat listening to the old men's talk and faultfinding, understood nothing of what she heard; she only wondered whether the guests had all observed her father's hostile attitude toward her. She did not even notice the special attentions and amiabilities shown her during dinner by Boris Drubetskoy, who was visiting them for the third time already.

Princess Mary turned with absent-minded questioning look to Pierre, who hat in hand and with a smile on his face was the last of the guests to approach her after the old prince had gone out and they were left alone in the drawing room.

"May I stay a little longer?" he said, letting his stout body sink into an armchair beside her.

"Oh yes," she answered. "You noticed nothing?" her look asked.

Pierre was in an agreeable after-dinner mood. He looked straight before him and smiled quietly.

"Have you known that young man long, Princess?" he asked.

"Who?"

"Drubetskoy."

"No, not long..."

"Do you like him?"

"Yes, he is an agreeable young man.... Why do you ask me that?" said Princess Mary, still thinking of that morning's conversation with her father.

"Because I have noticed that when a young man comes on leave from Petersburg to Moscow it is usually with the object of marrying an heiress."

"You have observed that?" said Princess Mary.

"Yes," returned Pierre with a smile, "and this young man now manages matters so that where there is a wealthy heiress there he is too. I

can read him like a book. At present he is hesitating whom to lay siege to--you or Mademoiselle Julie Karagina. He is very attentive to her."

"He visits them?"

"Yes, very often. And do you know the new way of courting?" said Pierre with an amused smile, evidently in that cheerful mood of good humored raillery for which he so often reproached himself in his diary.

"No," replied Princess Mary.

"To please Moscow girls nowadays one has to be melancholy. He is very melancholy with Mademoiselle Karagina," said Pierre.

"Really?" asked Princess Mary, looking into Pierre's kindly face and still thinking of her own sorrow. "It would be a relief," thought she,
"if I ventured to confide what I am feeling to someone. I should like to tell everything to Pierre. He is kind and generous. It would be a relief. He would give me advice."

"Would you marry him?"

"Oh, my God, Count, there are moments when I would marry anybody!" she cried suddenly to her own surprise and with tears in her voice. "Ah, how bitter it is to love someone near to you and to feel that..." she went on in a trembling voice, "that you can do nothing for him but grieve him, and to know that you cannot alter this. Then there is only one thing left--to go away, but where could I go?"

"What is wrong? What is it, Princess?"

But without finishing what she was saying, Princess Mary burst into tears.

"I don't know what is the matter with me today. Don't take any notice--forget what I have said!"

Pierre's gaiety vanished completely. He anxiously questioned the princess, asked her to speak out fully and confide her grief to him; but she only repeated that she begged him to forget what she had said,
that she did not remember what she had said, and that she had no trouble except the one he knew of--that Prince Andrew's marriage threatened to cause a rupture between father and son.

"Have you any news of the Rostovs?" she asked, to change the subject. "I was told they are coming soon. I am also expecting Andrew any day. I should like them to meet here."

"And how does he now regard the matter?" asked Pierre, referring to the old prince.

Princess Mary shook her head.

"What is to be done? In a few months the year will be up. The thing is impossible. I only wish I could spare my brother the first moments. I wish they would come sooner. I hope to be friends with her. You have known them a long time," said Princess Mary. "Tell me honestly the whole truth: what sort of girl is she, and what do you think of her?--The real truth, because you know Andrew is risking so much doing this against his father's will that I should like to know..."

An undefined instinct told
Pierre that these explanations, and
repeated requests to be told the whole truth, expressed ill-will on the princess' part toward her future sister-in-law and a wish that he should disapprove of Andrew's choice; but in reply he said what he felt rather than what he thought.

"I don't know how to answer your question," he said, blushing without knowing why. "I really don't know what sort of girl she is; I can't analyze her at all. She is enchanting, but what makes her so I don't know. That is all one can say about her."

Princess Mary sighed, and the expression on her face said: "Yes, that's what I expected and feared."

"Is she clever?" she asked.

Pierre considered.

"I think not," he said, "and yet--yes. She does not deign to be clever.... Oh no, she is simply enchanting, and that is all."

Princess Mary again shook her head disapprovingly.

"Ah, I so long to like her! Tell her so if you see her before I do."

"I hear they are expected very soon," said Pierre.

Princess Mary told Pierre

of her plan to become intimate with her future sister-in-law as soon as the Rostovs arrived and to try to accustom the old prince to her.

CHAPTER V

Boris had not succeeded in making a wealthy match in Petersburg, so with the same object in view he came to Moscow. There he wavered between the two richest heiresses, Julie and Princess Mary. Though Princess Mary despite her plainness seemed to him more attractive than Julie, he, without knowing why, felt awkward about paying court to her. When they had last met on the old prince's name day, she had answered at random all his attempts to talk sentimentally, evidently not listening to what he was saying.

Julie on the contrary accepted his attentions readily, though in a manner peculiar to herself.

She was twenty-seven. After the death of her brothers she had become very wealthy. She was by now decidedly plain, but thought herself not merely as good-looking as before but even far more attractive. She was confirmed in this delusion by the fact that she had become a very wealthy heiress and also by the fact that the older she grew the less dangerous she became to men, and the more freely they could associate with her and avail themselves of her suppers, soirees, and the animated company that assembled at her house, without incurring any obligation. A man who would have been afraid ten years before of going every day to the house when there was a girl of seventeen there, for fear of compromising her and committing himself, would now go boldly every day and treat her not as a marriageable girl but as a sexless acquaintance.

That winter the Karagins' house was the most agreeable and hospitable in Moscow. In addition to the formal evening and dinner parties, a large company, chiefly of men, gathered there every day, supping at midnight and staying till three in the morning. Julie never missed a ball, a promenade, or a play. Her dresses were always of the latest fashion. But in spite of that she seemed to be disillusioned about everything and told everyone that she did not believe either in friendship or in love, or any of the joys of life, and expected peace only "yonder." She adopted the tone of one who

has suffered a great disappointment, like a girl who has either lost the man she loved or been cruelly deceived by him. Though nothing of the kind had happened to her she was regarded in that light, and had even herself come to believe that she had suffered much in life. This melancholy, which did not prevent her amusing herself, did not hinder the young people who came to her house from passing the time pleasantly. Every visitor who came to the house paid his tribute to the melancholy mood of the hostess, and then amused himself with society gossip, dancing, intellectual games, and bouts rimes, which were in vogue at the Karagins'. Only a few of these young men, among them Boris, entered more deeply into Julie's melancholy, and with these she had prolonged conversations in private on the vanity of all worldly things, and to them she showed her albums filled with mournful sketches, maxims, and verses.

To Boris, Julie was particularly gracious: she regretted his early disillusionment with life, offered him such consolation of friendship as she who had herself suffered so much could render, and showed him her album. Boris sketched two trees in the album and wrote: "Rustic trees, your dark branches shed gloom and melancholy upon me."

On another page he drew a tomb, and wrote:

La mort est secourable et la mort est tranquille.
Ah! contre les douleurs il n'y a pas d'autre asile.*

*Death gives relief and death is peaceful.

Ah! from suffering there is no other refuge.

Julia said this was charming

"There is something so enchanting in the smile of melancholy," she said to Boris, repeating word for word a passage she had copied from a book. "It is a ray of light in the darkness, a shade between sadness and despair, showing the possibility of consolation."

In reply Boris wrote these lines:

Aliment de poison d'une ame trop sensible,
Toi, sans qui le bonheur me serait impossible,
Tendre melancholie, ah, viens me consoler,
Viens calmer les tourments de ma sombre retraite,
Et mele une douceur secrete
A ces pleurs que je sens couler.*

*Poisonous nourishment of a too sensitive soul,

Thou, without whom happiness would for me be impossible,

Tender melancholy, ah, come to console me,

Come to calm the torments of my gloomy retreat,

And mingle a secret sweetness

With these tears that I feel to be flowing.

For Boris, Julie played most doleful nocturnes on her harp. Boris read Poor Liza aloud to her, and more than once interrupted the reading because of the emotions that choked him. Meeting at large gatherings Julie and Boris looked on one another as the only souls who understood one another in a world of indifferent people.

Anna Mikhaylovna, who often visited the Karagins, while playing cards with the mother made careful
inquiries as to Julie's dowry
(she was to have two estates in Penza and the Nizhegorod forests). Anna Mikhaylovna regarded the refined sadness that united her son to the wealthy Julie with emotion, and resignation to the Divine will.

"You are always charming and melancholy, my dear Julie," she said to the daughter. "Boris says his soul finds repose at your house. He has suffered so many disappointments and is so sensitive," said she to the mother. "Ah, my dear, I can't tell you how fond I have grown of Julie latterly," she said to her son. "But who could help loving her? She is an angelic being! Ah, Boris, Boris!"--she paused. "And how I pity her mother," she went on; "today she showed me her accounts and letters from Penza (they have enormous estates there), and she, poor thing, has no one to help her, and they do cheat her so!"

Boris smiled almost imperceptibly while listening to his mother. He laughed blandly at her naive diplomacy but listened to what she had to say, and sometimes
questioned her carefully about the Penza and
Nizhegorod estates.

Julie had long been expecting a proposal from her melancholy adorer and was ready to accept it; but some secret feeling of repulsion for her, for her passionate desire to get married, for her artificiality, and a feeling of horror at renouncing the possibility

of real love still restrained Boris. His leave was expiring. He spent every day and whole days at the Karagins', and every day on thinking the matter over told himself that he would propose tomorrow. But in Julie's presence, looking at her red face and chin (nearly always powdered), her moist eyes, and her expression of continual readiness to pass at once from melancholy to an unnatural rapture of married bliss, Boris could not utter the decisive words, though in imagination he had long regarded himself as the possessor of those Penza and Nizhegorod estates and had apportioned the use of the income from them. Julie saw Boris' indecision, and sometimes the thought
occurred to her that she was repulsive to him, but her feminine self-deception immediately supplied her with consolation, and she told herself that he was only shy from love. Her melancholy, however, began to turn to irritability, and not long before Boris' departure she formed a definite plan of action. Just as Boris' leave of absence was expiring, Anatole Kuragin made his appearance in Moscow, and of course in the Karagins' drawing room, and Julie, suddenly abandoning her melancholy, became cheerful and very attentive to Kuragin.

"My dear," said Anna Mikhaylovna to her son, "I know from a reliable source that Prince Vasili has sent his son to Moscow to get him married to Julie. I am so fond of Julie that I should be sorry for her. What do you think of it, my dear?"

The idea of being made a fool of and of having thrown away that whole month of arduous melancholy service to Julie, and of seeing all the revenue from the Penza estates which he had already mentally apportioned and put
to proper use fall into the hands of another, and especially into the hands of that idiot Anatole, pained Boris. He drove to the Karagins' with the firm intention of proposing. Julie met him in a gay, careless manner, spoke casually of how she had enjoyed yesterday's ball, and asked when he was leaving. Though Boris had come intentionally to speak of his love and therefore meant to be tender, he began speaking irritably of feminine inconstancy, of how easily women can turn from sadness to joy, and how their moods depend solely on who happens to be paying court to them. Julie was offended and replied that it was true that a woman needs variety, and the same thing over and over again would weary anyone.

"Then I should advise you..." Boris began, wishing to sting her; but at that instant the galling thought occurred to him that he might have to leave Moscow without having accomplished his aim, and have vainly wasted his efforts--which was a thing he never allowed to happen.

He checked

himself in the middle of the sentence, lowered his eyes to avoid seeing her unpleasantly irritated and irresolute face, and said:

"I did not come here at all to quarrel with you. On the contrary..."

He glanced at her to make sure that he might go on. Her irritability had suddenly quite vanished, and her anxious, imploring eyes were fixed on him with greedy expectation. "I can always arrange so as not to see her often," thought Boris. "The affair has been begun and must be finished!" He blushed hotly, raised his eyes to hers, and said:

"You know my feelings for you!"

There was no need to say more: Julie's face shone with triumph and self-satisfaction; but she forced Boris to say all that is said on such occasions--that he loved her and had never loved any other woman more than her. She knew that for the Penza estates and Nizhegorod forests she could demand this, and she received what she demanded.

The affianced couple, no longer alluding to trees that shed gloom and melancholy upon them, planned the arrangements of a splendid house in Petersburg, paid calls, and prepared everything for a brilliant wedding.

CHAPTER VI

At the end of January old Count Rostov went to Moscow with Natasha and Sonya. The countess was still unwell and unable to travel but it was impossible to wait for her recovery. Prince Andrew was expected in Moscow any day, the trousseau had to be ordered and the estate near Moscow had to be sold, besides which the opportunity of presenting his future daughter-in-law to old Prince Bolkonski while he was in Moscow could not be missed. The Rostovs' Moscow house had not been heated that winter and, as they had come only for a short time and the countess was not with them, the count decided to stay with Marya Dmitrievna Akhrosimova, who had long been pressing her hospitality on them.

Late one evening the Rostovs' four sleighs drove into Marya

Dmitrievna's courtyard in the old Konyusheny street. Marya Dmitrievna lived alone. She had already married off her daughter, and her sons were all in the service.

She held herself as erect, told everyone her opinion as candidly, loudly, and bluntly as ever, and her whole bearing seemed a reproach to others for any weakness, passion, or temptation--the possibility of which she did not admit. From early in the morning, wearing a dressing jacket, she attended to her household affairs, and then she drove out: on holy days to church and after the service to jails and prisons on affairs of which she never spoke to anyone. On ordinary days, after dressing, she received petitioners of various classes, of whom there were always some. Then she had dinner, a substantial and appetizing meal at which there were always three or four guests; after dinner she played a game of boston, and at night she had the newspapers or a new book read to her while she knitted. She rarely made an exception and went out to pay visits, and then only to the most important persons in the town.

She had not yet gone to bed when the Rostovs arrived and the pulley of the hall door squeaked from the cold as it let in the Rostovs and their servants. Marya Dmitrievna, with her spectacles hanging down on her nose and her head flung back, stood in the hall doorway looking with a stern, grim face at the new arrivals. One might have thought she was angry with the travelers and would immediately turn them out, had she not at the same time been giving careful instructions to the servants for the accommodation of the visitors and their belongings.

"The count's things? Bring them here," she said, pointing to the portmanteaus and not greeting anyone. "The young ladies'? There to the left. Now what are you dawdling for?" she cried to the maids. "Get the samovar ready!... You've grown plumper and prettier," she remarked, drawing Natasha (whose cheeks were glowing from the cold) to her by the hood. "Foo! You are cold! Now take off your things, quick!" she shouted to the count who was going to kiss her hand. "You're half frozen, I'm sure! Bring some rum for tea!... Bonjour, Sonya dear!" she added, turning to Sonya and indicating by this French greeting her slightly contemptuous though affectionate attitude toward her.

When they came in to tea, having taken off their outdoor things and tidied themselves up after their journey, Marya Dmitrievna kissed them all in due order.

"I'm heartily glad you have come and are staying with me. It was

high time," she said, giving Natasha a significant look. "The old man is here and his son's expected any day. You'll have to make his acquaintance. But we'll speak of that later on," she added, glancing at Sonya with a look that showed she did not want to speak of it in her presence. "Now listen," she said to the count. "What do you want tomorrow? Whom will you send for? Shinshin?" she crooked one of her fingers. "The sniveling Anna Mikhaylovna? That's two. She's here with her son. The son is getting married! Then Bezukhov, eh? He is here too, with his wife. He ran
away from her and she came galloping
after him. He dined with me on Wednesday. As for them"--and she pointed to the girls--"tomorrow I'll take them first to the Iberian shrine of the Mother of God, and then we'll drive to the Super-Rogue's. I suppose you'll have everything new. Don't judge by me: sleeves nowadays are this size! The other day young Princess Irina Vasilevna came to see me; she was an awful sight--looked as if she had put two barrels on her arms. You know not a day passes now without some new fashion.... And what have you to do yourself?" she asked the count sternly.

"One thing has come on top of another: her rags to buy, and now a purchaser has turned up for the Moscow estate and for the house. If you will be so kind, I'll fix a time and go down to the estate just for a day, and leave my lassies with you."

"All right. All right. They'll be safe with me, as safe as in Chancery! I'll take them where they must go, scold them a bit, and pet them a bit," said Marya Dmitrievna,
touching her goddaughter and
favorite, Natasha, on the cheek with her large hand.

Next morning Marya Dmitrievna took the young ladies to the Iberian shrine of the Mother of God and to Madame Suppert-Roguet, who was so afraid of Marya Dmitrievna that she always let her have costumes at a loss merely to get rid of her. Marya Dmitrievna ordered almost the whole trousseau. When they got home she turned everybody out of the room except Nataisha, and then called her pet to her armchair.

"Well, now we'll talk. I congratulate you on your betrothed. You've hooked a fine fellow! I am glad for your sake and I've known him since he was so high." She held her hand a couple of feet from the ground. Natasha blushed happily. "I like him and all his family. Now listen! You know that old Prince Nicholas much dislikes his son's marrying. The old fellow's crotchety! Of course Prince Andrew is not a child and can shift without him, but it's not nice to enter a family against a father's will. One wants
to do it peacefully and lovingly.
You're a clever girl and you'll know how to manage. Be kind, and use

your wits. Then all will be well."

Natasha remained silent, from shyness Marya Dmitrievna supposed, but really because she disliked anyone interfering in what touched her love of Prince Andrew, which seemed to her so apart from all human affairs that no one could understand it. She loved and knew Prince Andrew, he loved her only, and was to come one of these days and take her. She wanted nothing more.

"You see I have known him a long time and am also fond of Mary, your future sister-in-law. 'Husbands' sisters bring up blisters,' but this one wouldn't hurt a fly. She has asked me to bring you two together. Tomorrow you'll go with your father to see her. Be very nice and affectionate to her: you're younger than she. When he comes, he'll find you already know his sister and father and are liked by them. Am I right or not? Won't that be best?"

"Yes, it will," Natasha answered reluctantly.

CHAPTER VII

Next day, by Marya Dmitrievna's advice, Count Rostov took Natasha to call on Prince Nicholas Bolkonski. The count did not set out cheerfully on this visit, at heart he felt afraid. He well remembered the last interview he had had with the old prince at the time of the enrollment, when in reply to an invitation to dinner he had had to listen to an angry reprimand for not having provided his full quota of men. Natasha, on the other hand, having put on her best gown, was in the highest spirits. "They can't help liking me," she thought. "Everybody always has liked me, and I am so willing to do anything they wish, so ready to be fond of him--for being his father--and of her--for being his sister--that there is no reason for them not to like me..."

They drove up to the gloomy old house on the Vozdvizhenka and entered the vestibule.

"Well, the Lord have mercy on us!" said the count, half in jest, half in earnest; but Natasha noticed that her father was flurried on entering the anteroom and inquired timidly and softly whether the prince and princess were at home.

When they had been announced a perturbation was noticeable among the servants. The footman who had gone to announce them was stopped by another in the large hall and they whispered to one another. Then a maidservant ran into the hall and hurriedly said something, mentioning the princess. At last an old, cross looking footman came and announced to the Rostovs that the prince was not receiving, but that the princess begged them to walk up. The first person who came to meet the visitors was Mademoiselle Bourienne. She greeted the father and daughter with special politeness and showed them to the princess' room. The princess, looking excited and nervous, her face flushed in patches, ran in to meet the visitors, treading heavily, and vainly trying to appear cordial and at ease. From the first glance Princess Mary did not like Natasha. She thought her too fashionably dressed, frivolously gay and
vain. She did not at all realize that before having seen her future sister-in-law she was prejudiced against her by involuntary envy of her beauty, youth, and happiness, as well as by jealousy of her brother's love for her. Apart from this insuperable antipathy to her, Princess Mary was agitated just then because on the Rostovs' being announced, the old prince had shouted that he did not wish to see them, that Princess Mary might do so if she chose, but they were not to be admitted to him. She had decided to receive them, but feared lest the prince might at any moment indulge in some freak, as he seemed much upset by the Rostovs' visit.

"There, my dear princess, I've brought you my songstress," said the count, bowing and looking round uneasily as if afraid the old prince might appear. "I am so glad you should get to know one another... very sorry the prince is still ailing," and after a few more commonplace remarks he rose. "If you'll allow me to leave my Natasha in your hands for
a quarter of an hour, Princess, I'll drive round to see Anna Semenovna, it's quite near in the Dogs' Square, and then I'll come back for her."

The count had devised this diplomatic ruse (as he afterwards told his daughter) to give the future sisters-in-law an opportunity to talk to one another freely, but another motive was to avoid the danger of encountering the old prince, of whom he was afraid. He did not mention this to his daughter, but Natasha noticed her father's nervousness and anxiety and felt mortified by it. She blushed for him, grew still angrier at having blushed, and looked at the princess with a bold and defiant expression which said that she was not afraid of anybody. The princess told the count that she would be delighted, and only begged him to stay longer at Anna Semenovna's, and he departed.

Despite the uneasy glances thrown at her by Princess Mary--who wished to have a tete-a-tete with Natasha--Mademoiselle Bourienne remained in the room and persistently talked about Moscow amusements and theaters. Natasha felt offended by the hesitation she had noticed in the anteroom, by her father's nervousness, and by the unnatural manner of the princess who--she thought--was making a favor of receiving her, and so everything displeased her. She did not like Princess Mary, whom she thought very plain, affected, and dry. Natasha suddenly shrank into herself and involuntarily assumed an offhand air which alienated Princess Mary still more. After five minutes of irksome, constrained conversation, they heard the sound of slippered feet rapidly approaching. Princess Mary looked frightened.

The door opened and the old prince, in a dress, ing gown and a white nightcap, came in.

"Ah, madam!" he began. "Madam, Countess... Countess Rostova, if I am not mistaken... I beg you to excuse me, to excuse me... I did not know, madam. God is my witness, I did not know you had honored us with a visit, and I came in such a costume only to see my daughter. I beg you to excuse me... God is my witness, I didn't know-" he repeated, stressing the word "God" so unnaturally and so unpleasantly that Princess Mary stood with downcast eyes not daring to look either at her father or at Natasha.

Nor did the latter, having risen and curtsied, know what to do. Mademoiselle Bourienne alone smiled agreeably.

"I beg you to excuse me, excuse me! God is my witness, I did not know," muttered the old man, and after looking Natasha over from head to foot he went out.

Mademoiselle Bourienne was the first to recover herself after this apparition and began speaking about the prince's indisposition. Natasha and Princess Mary looked at one another in silence, and the longer they did so without saying what they wanted to say, the greater grew their antipathy to one another.

When the count returned, Natasha was impolitely pleased and hastened to get away: at that moment she hated the stiff, elderly princess, who could place her in such an embarrassing position and had spent half an hour with her without once mentioning Prince Andrew. "I couldn't begin talking about him in the presence of that Frenchwoman," thought Natasha. The same thought was meanwhile tormenting Princess Mary.

She knew what she ought to have said to Natasha, but she had been unable to say it because Mademoiselle Bourienne was in the way, and because, without knowing why, she felt it very difficult to speak of the marriage. When the count was already leaving the room, Princess Mary went up hurriedly to Natasha, took her by the hand, and said with a deep sigh:

"Wait, I must..."

Natasha glanced at her ironically without knowing why.

"Dear Natalie," said Princess Mary, "I want you to know that I am glad my brother has found happiness...."

She paused, feeling that she was not telling the truth. Natasha noticed this and guessed its reason.

"I think, Princess, it is not convenient to speak of that now," she said with external dignity and coldness, though she felt the tears choking her.

"What
have I said and what have I done?" thought she, as soon as she was out of the room.

They waited a long time for Natasha to come to dinner that day. She sat in her room crying like a child, blowing her nose and sobbing. Sonya stood beside her, kissing her hair.

"Natasha, what is it about?" she asked. "What do they matter to you? It will all pass, Natasha."

"But if you only knew how offensive it was... as if I..."

"Don't talk about it, Natasha. It wasn't your fault so why should you mind? Kiss me," said Sonya.

Natasha raised her head and, kissing her friend on the lips, pressed her wet face against her.

"I can't tell you, I don't know. No one's to blame," said Natasha- "It's my fault. But it all hurts terribly. Oh, why doesn't he come?..."

She came in to dinner with red eyes. Marya Dmitrievna, who knew how the prince had received the Rostovs, pretended not to notice how upset Natasha was and jested resolutely and loudly at table with the count and the other guests.

CHAPTER VIII

That evening the Rostovs went to the Opera, for which Marya Dmitrievna had taken a box.

Natasha did not want to go, but could not refuse Marya Dmitrievna's kind offer which was intended expressly for her. When she came ready dressed into the ballroom to await her father, and looking in the large mirror there saw that she was pretty, very pretty, she felt even more sad, but it was a sweet, tender sadness.

"O God, if he were here now I would not behave as I did then, but differently. I would not be silly and afraid of things, I would simply embrace him, cling to him, and make him look at me with those searching inquiring eyes with which he has so often looked at me, and then I would make him laugh as he used to laugh. And his eyes--how I see those eyes!" thought Natasha. "And what do his father and sister matter to me? I love him alone, him, him, with that face and those eyes, with his smile, manly and yet childlike.... No, I had better not think of him; not think of him but forget him, quite forget him for the present. I can't bear this waiting and I shall cry in a minute!" and she turned away from the glass, making an effort not to cry. "And how can Sonya love Nicholas so calmly and quietly and wait so long and so patiently?" thought she, looking at Sonya, who also came in quite ready, with a fan in her hand. "No, she's altogether different. I can't!"

Natasha at that moment felt so softened and tender that it was not enough for her to love and know she was beloved, she wanted now, at once, to embrace the man she loved, to speak and hear from him words of love such as filled her heart. While she sat in the carriage beside her father, pensively watching the lights of the street lamps flickering on the frozen window, she felt still sadder and more in love, and forgot where she was going and with whom. Having fallen into the line of carriages, the Rostovs' carriage drove up to the theater, its wheels squeaking over the snow. Natasha and Sonya, holding up their dresses, jumped out quickly. The count got out helped by the footmen, and, passing among men and women who were entering and the program sellers, they all three went along the corridor to the

first row of boxes. Through the closed doors the music was already audible.

"Natasha, your hair!..." whispered Sonya.

An attendant deferentially and quickly slipped before the ladies and opened the door of their box. The music sounded louder and through the door rows of brightly lit boxes in which ladies sat with bare arms and shoulders, and noisy stalls brilliant with uniforms, glittered before their eyes. A lady entering the next box shot a glance of feminine envy at Natasha. The curtain had not yet risen and the overture was being played. Natasha, smoothing her gown, went in with Sonya and sat down, scanning the brilliant tiers of boxes opposite. A sensation she had not experienced for a long time--that of hundreds of eyes looking at her bare arms and neck--suddenly affected her both agreeably and disagreeably and called up a whole crowd of memories, desires and emotions associated with that feeling.

The two remarkably pretty girls, Natasha and Sonya, with Count Rostov who had not been seen in Moscow for a long time, attracted general attention. Moreover, everybody knew vaguely of Natasha's engagement to Prince Andrew, and knew that the Rostovs had lived in the country ever since, and all looked with curiosity at a fiancee who was making one of the best matches in Russia.

Natasha's looks, as everyone told her, had improved in the country, and that evening thanks to her agitation she was particularly pretty. She struck those who saw her by her fullness of life and beauty, combined with her indifference to everything about her. Her black eyes looked at the crowd without seeking anyone, and her delicate arm, bare to above the elbow, lay on the velvet edge of the box, while, evidently unconsciously, she opened and closed her hand in time to the music, crumpling her program. "Look, there's Alenina," said Sonya, "with her mother, isn't it?"

"Dear me, Michael Kirilovich has grown still stouter!" remarked the count.

"Look at our Anna Mikhaylovna--what a headdress she has on!"

"The Karagins, Julie--and Boris with them. One can see at once that they're engaged...."

"Drubetskoy has proposed?"

"Oh yes, I heard it today," said Shinshin, coming into the

Rostovs' box.

Natasha looked in the direction in which her father's eyes were turned and saw Julie sitting beside her mother with a happy look on her face and a string of pearls round her thick red neck--which Natasha knew was covered with powder. Behind them, wearing a smile and leaning over with an ear to Julie's mouth, was Boris' handsome smoothly brushed head. He looked the Rostovs from under his brows and said something, smiling, to his betrothed.

"They are talking about us, about me and him!" thought Natasha. "And he no doubt is calming her jealousy of me. They needn't trouble themselves! If only they knew how little I am concerned about any of them."

Behind them sat Anna Mikhaylovna wearing a green headdress and with a happy look of resignation to the will of God on her face. Their box was pervaded by that atmosphere of an affianced couple which Natasha knew so well and liked so much. She turned away and suddenly remembered all that had been so humiliating in her morning's visit.

"What right has he not to wish to receive me into his family? Oh, better not think of it--not till he comes back!" she told herself, and began looking at the faces, some strange and some familiar, in the stalls. In the front, in the very center, leaning back against the orchestra rail, stood Dolokhov in a Persian dress, his curly hair brushed up into a huge shock. He stood in full view of the audience, well aware that he was attracting everyone's attention, yet as much at ease as though he were in his own room. Around him thronged Moscow's most brilliant young men, whom he evidently dominated.

The count, laughing, nudged the blushing Sonya and pointed to her former adorer.

"Do you recognize him?" said he. "And where has he sprung from?" he asked, turning to Shinshin. "Didn't he vanish somewhere?"

"He did," replied Shinshin. "He was in the Caucasus and ran away from there. They say he has been acting as minister to some ruling prince in Persia, where he killed the Shah's brother. Now all the Moscow ladies are mad about him! It's 'Dolokhov the Persian' that does it! We never hear a word but Dolokhov is mentioned. They swear by him, they offer him to you as they would a dish of choice sterlet. Dolokhov and Anatole Kuragin have turned all our ladies' heads."

A tall, beautiful woman with a mass of plaited hair and much exposed

plump white shoulders and neck, round which she wore a double string of large pearls, entered the adjoining box rustling her heavy silk dress and took a long time settling into her place.

Natasha involuntarily gazed at that neck, those shoulders, and pearls and coiffure, and admired the beauty of the shoulders and the pearls. While Natasha was fixing her gaze on her for the second time the lady looked round and, meeting the count's eyes, nodded to him and smiled. She was the Countess Bezukhova, Pierre's wife, and the count, who knew everyone in society, leaned over and spoke to her.

"Have you been here long, Countess?" he inquired. "I'll call, I'll call to kiss your hand. I'm here on business and have brought my girls with me. They say Semenova acts marvelously. Count Pierre never used to forget us. Is he here?"

"Yes, he meant to look in," answered Helene, and glanced attentively at Natasha.

Count Rostov resumed his seat.

"Handsome, isn't she?" he whispered to Natasha.

"Wonderful!" answered Natasha. "She's a woman one could easily fall in love with."

Just then the last chords of the overture were heard and the conductor tapped with his stick. Some latecomers took their seats in the stalls, and the curtain rose.

As soon as it rose everyone in the boxes and stalls became silent, and all the men, old and young, in uniform and evening dress, and all the women with gems on their bare flesh, turned their whole attention with eager curiosity to the stage. Natasha too began to look at it.

CHAPTER IX

The floor of the stage consisted of smooth boards, at the sides was some painted cardboard representing trees, and at the back was a cloth stretched over boards. In the center of the stage sat some girls

in red bodices and white skirts. One very fat girl in a white silk dress sat apart on a low bench, to the back of which a piece of green cardboard was glued. They all sang something. When they had finished their song the girl in white went up to the prompter's box and a man with tight silk trousers over his stout legs, and holding a plume and a dagger, went up to her and began singing, waving his arms about.

First the man in the tight trousers sang alone, then she sang, then they both paused while the orchestra played and the man fingered the hand of the girl in white, obviously awaiting the beat to start singing with her. They sang together and everyone in the theater began clapping and shouting, while the man and woman on the stage--who represented lovers--began smiling, spreading out their arms, and bowing.

After her life in the country, and in her present serious mood, all this seemed grotesque and amazing to Natasha. She could not follow the opera nor even listen to the music; she saw only the painted cardboard and the queerly dressed men and women who moved, spoke, and sang so strangely in that brilliant light. She knew what it was all meant to represent, but it was so pretentiously false and unnatural that she first felt ashamed for the actors and then amused at them. She looked at the faces of the audience, seeking in them the same sense of ridicule and perplexity she herself experienced, but they all seemed attentive to what was happening on the stage, and expressed delight which to Natasha seemed feigned. "I suppose it has to be like this!" she thought. She kept looking round in turn at the rows of pomaded heads in the stalls and then at the seminude women in the boxes, especially at Helene in the next box, who--apparently quite unclothed--sat with a quiet tranquil smile, not taking her eyes off the stage. And feeling the bright light that flooded the whole place and the warm air heated by the crowd, Natasha little by little began to pass into a state of intoxication she had not experienced for a long while. She did not realize who and where she was, nor what was going on before her. As she looked and thought, the strangest fancies unexpectedly and disconnectedly passed through her mind: the idea occurred to her of jumping onto the edge of the box and singing the air the actress was singing, then she wished to touch with her fan an old gentleman sitting not far from her, then to lean over to Helene and tickle her.

At a moment when all was quiet before the commencement of a song, a door leading to the stalls on the side nearest the Rostovs' box creaked, and the steps of a belated arrival were heard. "There's

Kuragin!" whispered Shinshin. Countess Bezukhova turned smiling to the newcomer, and Natasha, following the direction of that look, saw an exceptionally handsome adjutant approaching their box with a self-assured yet courteous bearing. This was Anatole Kuragin whom she had seen and noticed long ago at the ball in Petersburg. He was now in an adjutant's uniform with one epaulet and a shoulder knot. He moved with a restrained swagger which would have been ridiculous had he not been so good-looking and had his handsome face not worn such an expression of good-humored complacency and gaiety. Though the performance was proceeding, he walked deliberately down the carpeted gangway, his sword and spurs slightly jingling and his handsome perfumed head held high. Having looked at Natasha he approached his sister, laid his well gloved hand on the edge of her box,
nodded to her, and leaning forward asked a question, with a motion toward Natasha.

"Mais charmante!" said he, evidently referring to Natasha, who did not exactly hear his words but understood them from the movement of his lips. Then he took his place in the first row of the stalls and sat down beside Dolokhov, nudging with his elbow in a friendly and offhand way that Dolokhov whom others treated so fawningly. He winked at him gaily, smiled, and rested his foot against the orchestra screen.

"How like the brother is to the sister," remarked the count. "And how handsome they both are!"

Shinshin, lowering his voice, began to tell the count of some intrigue of Kuragin's in Moscow, and Natasha tried to overhear it just because he had said she was "charmante."

The first act was over. In the stalls everyone began moving about, going out and coming in.

Boris came to the Rostovs' box, received their congratulations very simply, and raising his eyebrows with an absent-minded smile conveyed
to Natasha and Sonya his fiancee's invitation to her wedding, and went away. Natasha with a gay, coquettish smile talked to him, and congratulated on his approaching wedding that same Boris with whom she had formerly been in love. In the state of intoxication she was in, everything seemed simple and natural.

The scantily clad Helene smiled at everyone in the same way, and Natasha gave Boris a similar smile.

Helene's box was filled and surrounded from the stalls by the most

distinguished and intellectual men, who seemed to vie with one another in their wish to let everyone see that they knew her.

During the whole of that entr'acte Kuragin stood with Dolokhov in front of the orchestra partition, looking at the Rostovs' box. Natasha knew he was talking about her and this afforded her pleasure. She even turned so that he should see her profile in what she thought was its most becoming aspect. Before the beginning of the second act Pierre appeared in the stalls. The Rostovs had not seen him since their arrival. His face looked sad, and he had grown still stouter since Natasha last saw him. He passed up to the front rows, not noticing anyone. Anatole went up to him and began speaking to him, looking at and indicating the Rostovs' box. On seeing Natasha Pierre grew animated and, hastily passing between the rows, came toward their box. When he got there he leaned on his elbows and, smiling, talked to her for a long time. While conversing with Pierre, Natasha heard a man's voice in Countess Bezukhova's box and something told her it was Kuragin. She turned and their eyes met. Almost smiling, he gazed straight into her eyes with such an enraptured caressing look that it seemed strange to be so near him, to look at him like that, to be so sure he admired her, and not to be acquainted with him.

In the second act there was scenery representing tombstones, there was a round hole in the canvas to represent the moon, shades were raised over the footlights, and from horns and contrabass came deep notes while many people appeared from right and left wearing black cloaks and holding things like daggers in their hands. They began waving their arms. Then some other people ran in and began dragging away the maiden who had been in white and was now in light blue. They did not drag her away at once, but sang with her for a long time and then at last dragged her off, and behind the scenes something metallic was struck three times and everyone knelt down and sang a prayer. All these things were repeatedly interrupted by the enthusiastic shouts of the audience.

During this act every time Natasha looked toward the stalls she saw Anatole Kuragin with an arm thrown across the back of his chair, staring at her. She was pleased to see that he was captivated by her and it did not occur to her that there was anything wrong in it.

When the second act was over Countess Bezukhova rose, turned to the Rostovs' box--her whole bosom completely exposed--beckoned the old count with a gloved finger, and paying no attention to those who had entered her box began talking to him with an amiable smile.

"Do make me acquainted with your charming daughters," said she. "The whole town is singing their praises and I don't even know then!"

Natasha rose and curtsied to the splendid countess. She was so pleased by praise from this brilliant beauty that she blushed with pleasure.

"I want to become a Moscovite too, now," said Helene. "How is it you're not ashamed to bury such pearls in the country?"

Countess Bezukhova quite deserved her reputation of being a fascinating woman. She could say what she did not think--especially what was flattering--quite simply and naturally.

"Dear count, you must let me look after your daughters! Though I am not staying here long this time--nor are you--I will try to amuse them. I have already heard much of you in Petersburg and wanted to get to know you," said she to Natasha with her stereotyped and lovely smile. "I had heard about you from
my page, Drubetskoy. Have you heard
he is getting married? And also from my husband's friend Bolkonski, Prince Andrew Bolkonski," she went on with special emphasis, implying that she knew of his relation to Natasha. To get better acquainted she asked that one of the young ladies should come into her box for the rest of the performance, and Natasha moved over to it.

The scene of the third act represented a palace in which many candles were burning and pictures of knights with short beards hung on the walls. In the middle stood what were probably a king and a queen. The king waved his right arm and, evidently nervous, sang something badly and sat down on a crimson throne. The maiden who had been first in white and then in light blue, now wore only a smock, and stood beside the throne with her hair down. She sang something mournfully, addressing the queen, but the king waved his arm severely, and men and women with bare legs came in from both sides and began dancing all together. Then
the violins played very shrilly and merrily
and one of the women with thick bare legs and thin arms, separating from the others, went behind the wings, adjusted her bodice, returned to the middle of the stage, and began jumping and striking one foot rapidly against the other. In the stalls everyone clapped and shouted "bravo!" Then one of the men went into a corner of the stage. The cymbals and horns in the orchestra struck up more loudly, and this man with bare legs jumped very high and waved his feet about very rapidly. (He was Duport, who received sixty thousand rubles a year for this art.) Everybody in the stalls, boxes, and galleries began clapping and shouting with all their might, and the man stopped and began smiling and bowing to all sides. Then other men

and women danced with bare legs. Then the king again shouted to the sound of music, and they all began singing. But suddenly a storm came on, chromatic scales and diminished sevenths were heard in the orchestra, everyone ran
off, again dragging one of their number
away, and the curtain dropped. Once more there was a terrible noise and clatter among the audience, and with rapturous faces everyone began shouting: "Duport! Duport! Duport!" Natasha no longer thought this strange. She look about with pleasure, smiling joyfully.

"Isn't Duport delightful?" Helene asked her.

"Oh, yes," replied Natasha.

CHAPTER X

During the entr'acte a whiff of cold air came into Helene's box, the door opened, and Anatole entered, stooping and trying not to brush against anyone.

"Let me introduce my brother to you," said Helene, her eyes shifting uneasily from Natasha to Anatole.

Natasha turned her pretty little head toward the elegant young officer and smiled at him over her bare shoulder. Anatole, who was as handsome at close quarters as at a distance, sat down beside her and told her he had long wished to have this happiness--ever since the Naryshkins' ball in fact, at which he had had the well-remembered pleasure of
seeing her. Kuragin was much more sensible and simple with women than among men. He talked boldly and naturally, and Natasha was strangely and agreeably struck by the fact that there was nothing formidable in this man about whom there was so much talk, but that on the contrary his smile was most naive, cheerful, and good-natured.

Kuragin asked her opinion of the performance and told her how at a previous performance Semenova had fallen down on the stage.

"And do you know, Countess," he said, suddenly addressing her as an old, familiar acquaintance, "we are getting up a costume tournament; you ought to take part in it! It will be great fun. We shall all meet at the Karagins'! Please come! No! Really, eh?" said

he.

While saying this he never removed his smiling eyes from her face, her neck, and her bare arms. Natasha knew for certain that he was enraptured by her. This pleased her, yet his presence made her feel constrained and oppressed. When she was not looking at him she felt that
he was looking at her shoulders, and she involuntarily caught his eye so that he should look into hers rather than this. But looking into his eyes she was frightened, realizing that there was not that barrier of modesty she had always felt between herself and other men. She did not know how it was that within five minutes she had come to feel herself terribly near to this man. When she turned away she feared he might seize her from behind by her bare arm and kiss her on the neck. They spoke of most ordinary things, yet she felt that they were closer to one another than she had ever been to any man. Natasha kept turning to Helene and to her father, as if asking what it all meant, but Helene was engaged in conversation with a general and did not answer her look, and her father's eyes said nothing but what they always said: "Having a good time? Well, I'm glad of it!"

During one of these moments of awkward silence when Anatole's prominent eyes were gazing calmly and fixedly at her, Natasha,
to
break the silence, asked him how he liked Moscow. She asked the question and blushed. She felt all the time that by talking to him she was doing something improper. Anatole smiled as though to encourage her.

"At first I did not like it much, because what makes a town pleasant ce sont les jolies femmes,* isn't that so? But now I like it very much indeed," he said, looking at her significantly. "You'll come to the costume tournament, Countess? Do come!" and putting out his hand to her bouquet and dropping his voice, he added, "You will be the prettiest there. Do come, dear countess, and give me this flower as a pledge!"

*Are the pretty women.

Natasha did not understand what he was saying any more than he did himself, but she felt that his incomprehensible words had an improper intention. She did not know what to say and turned away as if she had not heard his remark. But as soon as she had turned away she felt that he was there, behind, so close behind her.

"How is he now? Confused?

Angry? Ought I to put it right?" she asked herself, and she could not refrain from turning round. She looked straight into his eyes, and his nearness, self-assurance, and the good-natured tenderness of his smile vanquished her. She smiled just as he was doing, gazing straight into his eyes. And again she felt with horror that no barrier lay between him and her.

The curtain rose again. Anatole left the box, serene and gay. Natasha went back to her father in the other box, now quite submissive to the world she found herself in. All that was going on before her now seemed quite natural, but on the other hand all her previous thoughts of her betrothed, of Princess Mary, or of life in the country did not once recur to her mind and were as if belonging to a remote past.

In the fourth act there was some sort of devil who sang waving his arm about, till the boards were withdrawn from under him and he disappeared down below. That was the only part of the fourth act that Natasha saw.

She felt agitated and tormented, and the cause of this was Kuragin whom she could not help watching. As they were leaving the theater Anatole came up to them, called their carriage, and helped them in. As he was putting Natasha in he pressed her arm above the elbow. Agitated and flushed she turned round. He was looking at her with glittering eyes, smiling tenderly.

Only after she had reached home was Natasha able clearly to think over what had happened to her, and suddenly remembering Prince Andrew she was horrified, and at tea to which all had sat down after the opera, she gave a loud exclamation, flushed, and ran out of the room.

"O God! I am lost!" she said to herself. "How could I let him?" She sat for a long time hiding her flushed face in her hands trying to realize what had happened to her, but was unable either to understand what had happened or what she felt. Everything seemed dark, obscure, and terrible. There in that enormous, illuminated theater where the bare-legged Duport,

in a tinsel-decorated jacket, jumped about to the music on wet boards, and young girls and old men, and the nearly naked Helene with her proud, calm smile, rapturously cried "bravo!"--there in the presence of that Helene it had all seemed clear and simple; but now, alone by herself, it was incomprehensible. "What is it? What was that terror I felt of him? What is this gnawing of conscience I am feeling now?" she thought.

Only to the old countess at night in bed could Natasha have told all

she was feeling. She knew that Sonya with her severe and simple views would either not understand it at all or would be horrified at such a confession. So Natasha tried to solve what was torturing her by herself.

"Am I spoiled for Andrew's love or not?" she asked herself, and with soothing irony replied: "What a fool I am to ask that! What did happen to me? Nothing! I have done nothing, I didn't lead him on at all. Nobody will know and I shall never see him again," she told herself. "So it is plain
that nothing has happened and there is nothing to
repent of, and Andrew can love me still. But why 'still?' O God, why isn't he here?" Natasha quieted herself for a moment, but again some instinct told her that though all this was true, and though nothing had happened, yet the former purity of her love for Prince Andrew had perished. And again in imagination she went over her whole conversation with Kuragin, and again saw the face, gestures, and tender smile of that bold handsome man when he pressed her arm.

CHAPTER XI

Anatole Kuragin was staying in Moscow because his father had sent him away from Petersburg, where he had been spending twenty thousand rubles a year in cash, besides running up debts for as much more, which his creditors demanded from his father.

His father announced to him that he would now pay half his debts for the last time, but only on condition that he went to Moscow as adjutant to the commander in chief--a post his father had procured for him--and would
at last try to make a good match there. He indicated to
him Princess Mary and Julie Karagina.

Anatole consented and went to Moscow, where he put up at Pierre's house. Pierre received him unwillingly at first, but got used to him after a while, sometimes even accompanied him on his carousals, and gave him money under the guise of loans.

As Shinshin had remarked, from the time of his arrival Anatole had turned the heads of the Moscow ladies, especially by the fact that he slighted them and plainly preferred the gypsy girls and French actresses--with the chief of whom, Mademoiselle George, he was said to be on intimate relations. He had never missed a carousal at Danilov's or other Moscow revelers', drank whole nights through,

outvying everyone else, and was at all the balls and parties of the best society. There was talk of his intrigues with some of the ladies, and he flirted with a few of them at the balls. But he did not run after the unmarried girls, especially the rich heiresses who were most of them plain. There was a special reason for this, as he had got married two years before--a fact known only to his most intimate friends. At that time while with his regiment in Poland, a Polish landowner of small means had forced him to marry his daughter. Anatole had very soon abandoned his wife and, for a payment which he agreed to send to his father-in-law, had arranged to be free to pass himself off as a bachelor.

Anatole was always content with his position, with himself, and with others. He was instinctively and thoroughly convinced that was impossible for him to live otherwise than as he did and that he had never in his life done anything base. He was incapable of considering how his actions might affect others or what the consequences of this or that action of his might be. He was convinced that, as a duck is so made that it must live in water, so God had made him such that he must spend thirty thousand rubles a year and always occupy a prominent position in society. He believed this so firmly that others, looking at him, were persuaded of it too and did not refuse him either a leading place in society or money, which he borrowed from anyone and everyone and evidently would not repay.

He was not a gambler, at any rate he did not care about winning. He was not vain. He did not mind what people thought of him. Still less could he be accused of ambition. More than once he had vexed his father by spoiling his own career, and he laughed at distinctions of all kinds. He was not mean, and did not refuse anyone who asked of him. All he cared about was gaiety and women, and as according to his ideas there was nothing dishonorable in these tastes, and he was incapable of considering what the gratification of his tastes entailed for others, he honestly considered himself irreproachable, sincerely despised rogues and bad people, and with a tranquil conscience carried his head high.

Rakes, those male Magdalenes, have a secret feeling of innocence similar to that which female Magdalenes have, based on the same hope of forgiveness. "All will be forgiven her, for she loved much; and all will be forgiven him, for he enjoyed much."

Dolokhov, who had reappeared that year in Moscow after his exile and his Persian adventures, and was leading a life of luxury, gambling, and dissipation, associated with his old Petersburg comrade Kuragin

and made use of him for his own ends.

Anatole was sincerely fond of Dolokhov for his cleverness and audacity. Dolokhov, who needed Anatole Kuragin's name, position, and connections as a bait to draw rich young men into his gambling set, made use of him and amused himself at his expense without letting the other feel it. Apart from the advantage he derived from Anatole, the very process of dominating another's will was in itself a pleasure, a habit, and a necessity to Dolokhov.

Natasha had made a strong impression on Kuragin. At supper after the opera he described to Dolokhov with the air of a connoisseur the attractions of her arms, shoulders, feet, and hair and expressed his intention of making love to her. Anatole had no notion and was incapable of considering what might come of such love-making, as he never had any notion of the outcome of any of his actions.

"She's first-rate, my dear fellow, but not for us," replied Dolokhov.

"I will tell my sister to ask her to dinner," said Anatole. "Eh?"

"You'd better wait till she's married...."

"You know, I adore little girls, they lose their heads at once," pursued Anatole.

"You have been caught once already by a 'little girl,'" said Dolokhov who knew of Kuragin's marriage. "Take care!"

"Well, that can't happen twice! Eh?" said Anatole, with a good-humored laugh.

CHAPTER XII

The day after the opera the Rostovs went nowhere and nobody came to see them. Marya Dmitrievna talked to the count about something which they concealed from Natasha. Natasha guessed they were talking about the old prince and planning something, and this disquieted and offended her. She was expecting Prince Andrew any moment and twice that day sent a manservant to the Vozdvizhenka to ascertain whether he

had come. He had not arrived. She suffered more now than during her first days in Moscow. To her impatience and pining for him were now added the unpleasant recollection of her interview with Princess Mary and the old prince, and a fear and anxiety of which she did not understand the cause. She continually fancied that either he would never come or that something would happen to her before he came. She could no longer think of him by herself calmly and continuously as she had done before. As soon as she began to think of him, the recollection of the old prince, of Princess Mary, of the theater, and of Kuragin mingled with her thoughts. The question again presented itself whether she was not guilty, whether she had not already broken faith with Prince Andrew, and again she found herself recalling to the minutest detail every word, every gesture, and every shade in the play of expression on the face of the man who had been able to arouse in her such an incomprehensible and terrifying feeling. To the family Natasha seemed livelier than usual, but she was far less tranquil and happy than before.

On Sunday morning Marya Dmitrievna invited her visitors to Mass at her parish church--the Church of the Assumption built over the graves of victims of the plague.

"I don't like those fashionable churches," she said, evidently priding herself on her independence of thought. "God is the same every where. We have an excellent priest, he conducts the service decently and with dignity, and the deacon is the same. What holiness is there in giving concerts in the choir? I don't like it, it's just self-indulgence!"

Marya Dmitrievna liked Sundays and knew how to keep them. Her whole house was scrubbed and cleaned on Saturdays; neither she nor the servants worked, and they all wore holiday dress and went to church. At her table there were extra dishes at dinner, and the servants had vodka and roast goose or suckling pig. But in nothing in the house was the holiday so noticeable as in Marya Dmitrievna's broad, stern face, which on that day wore an invariable look of solemn festivity.

After Mass, when they had finished their coffee in the dining room where the loose covers had been removed from the furniture, a servant announced that the carriage was ready, and Marya Dmitrievna rose with a stern air. She wore her holiday shawl, in which she paid calls, and announced that she was going to see Prince Nicholas Bolkonski to have an explanation with him about Natasha.

After she had gone, a dressmaker from Madame Suppert-Roguet waited on the Rostovs, and Natasha, very glad of this diversion, having

shut herself into a room adjoining the drawing room, occupied herself trying on the new dresses. Just as she had put on a bodice without sleeves and only tacked together, and was turning her head to see in the glass how the back fitted, she heard in the drawing room the animated sounds of her father's voice and another's--a woman's- that made her flush. It was Helene. Natasha had not time to take off the bodice before the door opened and Countess Bezukhova, dressed in a purple velvet gown with a high collar, came into the room beaming with good-humored amiable smiles.

"Oh, my enchantress!" she cried to the blushing Natasha. "Charming! No, this is really beyond anything, my dear count," said she to Count Rostov who had followed her in. "How can you live in Moscow and go nowhere? No, I won't let you off! Mademoiselle George will recite at my house tonight and there'll be some people, and if you don't bring your lovely girls--who are prettier than Mademoiselle George--I won't know you! My husband is away in Tver or I would send him to fetch you. You must come. You positively must! Between eight and nine."

She nodded to the dressmaker, whom she knew and who had curtsied respectfully to her, and seated herself in an armchair beside the looking glass, draping the folds of her velvet dress picturesquely. She did not cease chattering good-naturedly and gaily, continually praising Natasha's beauty. She looked at Natasha's dresses and praised them, as well as a new dress of her own made of "metallic gauze," which she had received from Paris, and advised Natasha to have one like it.

"But anything suits you, my charmer!" she remarked.

A smile of pleasure never left Natasha's face. She felt happy and as if she were blossoming under the praise of this dear Countess Bezukhova who had formerly seemed to her so unapproachable and important and was now so kind to her. Natasha brightened up and felt almost in love with this woman, who was so beautiful and so kind. Helene for her part was sincerely delighted with Natasha and wished to give her a good time. Anatole had asked her to bring him and Natasha together, and she was calling on the Rostovs for that purpose. The idea of throwing her brother and Natasha together amused her.

Though at one time, in Petersburg, she had been annoyed with Natasha for drawing Boris away, she did not think of that now, and in her own way heartily wished Natasha well. As she was leaving the Rostovs she called her protegee aside.

"My brother dined with me yesterday--we nearly died of laughter-he ate nothing and kept sighing for you, my charmer! He is madly, quite madly, in love with you, my dear."

Natasha blushed scarlet when she heard this.

"How she blushes, how she blushes, my pretty!" said Helene. "You must certainly come. If you love somebody, my charmer, that is not a reason to shut yourself up. Even if you are engaged, I am sure your fiance would wish you to go into society rather than be bored to death."

"So she knows I am engaged, and she and her husband Pierre--that good Pierre--have talked and laughed about this. So it's all right." And again, under Helene's influence, what had seemed terrible now seemed simple and natural. "And she is such a grande dame, so kind, and evidently likes me so much. And why not enjoy myself?" thought Natasha, gazing at Helene with wide-open, wondering eyes.

Marya Dmitrievna came back to dinner taciturn and serious, having evidently suffered a defeat at the old prince's. She was still too agitated by the encounter to be able to talk of the affair calmly. In answer to the count's inquiries she replied that things were all right and that she would tell about it next day. On hearing of Countess Bezukhova's visit and the invitation for that evening, Marya Dmitrievna remarked:

"I don't care to have anything to do with Bezukhova and don't advise you to; however, if you've promised--go. It will divert your thoughts," she added, addressing Natasha.

CHAPTER XIII

Count Rostov took the girls to Countess Bezukhova's. There were a good many people there, but nearly all strangers to Natasha. Count Rostov was displeased to see that the company consisted almost entirely of men and women known for the freedom of their conduct.
Mademoiselle George was standing in a corner of the drawing room surrounded by young men. There were several Frenchmen present, among them Metivier who from the time Helene reached Moscow had been an

intimate in her house. The count decided not to sit down to cards or let his girls out of his sight and to get away as soon as Mademoiselle George's performance was over.

Anatole was at the door, evidently on the lookout for the Rostovs. Immediately after greeting the count he went up to Natasha and followed her. As soon as she saw him she was seized by the same feeling she had had at the opera--gratified vanity at his admiration of her and fear at the absence of a moral barrier between them.

Helene welcomed Natasha delightedly and was loud in admiration of her beauty and her dress. Soon after their arrival Mademoiselle George went out of the room to change her costume. In the drawing room people began arranging the chairs and taking their seats. Anatole moved a chair
for Natasha and was about to sit down beside her, but the count, who never lost sight of her, took the seat himself. Anatole sat down behind her.

Mademoiselle George, with her bare, fat, dimpled arms, and a red shawl draped over one shoulder, came into the space left vacant for her, and assumed an unnatural pose. Enthusiastic whispering was audible.

Mademoiselle George looked sternly and gloomily at the audience and began reciting some French verses describing her guilty love for her son. In some places she raised her voice, in others she whispered, lifting her head triumphantly; sometimes she paused and uttered hoarse sounds, rolling her eyes.

"Adorable! divine! delicious!" was heard from every side.

Natasha looked at the fat actress, but neither saw nor heard nor understood anything of what went on before her. She only felt herself again completely borne away into this strange senseless world-so remote from her old world--a world in which it was impossible to know what was
good or bad, reasonable or senseless. Behind her sat
Anatole, and conscious of his proximity she experienced a frightened sense of expectancy.

After the first monologue the whole company rose and surrounded Mademoiselle George, expressing their enthusiasm.

"How beautiful she is!" Natasha remarked to her father who had also risen and was moving through the crowd toward the actress.

"I don't think so when I look at you!" said Anatole, following

Natasha. He said this at a moment when she alone could hear him. "You are enchanting... from the moment I saw you I have never ceased..."

"Come, come, Natasha!" said the count, as he turned back for his daughter. "How beautiful she is!" Natasha without saying anything stepped up to her father and looked at him with surprised inquiring eyes.

After giving several recitations, Mademoiselle George left, and Countess Bezukhova asked her visitors into the ballroom.

The count wished to go home, but Helene entreated him not to spoil her improvised
ball, and the Rostovs stayed on. Anatole asked
Natasha for a valse and as they danced he pressed her waist and hand and told her she was bewitching and that he loved her. During the ecossaise, which she also danced with him, Anatole said nothing when they happened to be by themselves, but merely gazed at her. Natasha lifted her frightened eyes to him, but there was such confident tenderness in his affectionate look and smile that she could not, whilst looking at him, say what she had to say. She lowered her eyes.

"Don't say such things to me. I am betrothed and love another," she said rapidly.... She glanced at him.

Anatole was not upset or pained by what she had said.

"Don't speak to me of that! What can I do?" said he. "I tell you I am madly, madly, in love with you! Is it my fault that you are enchanting?... It's our turn to begin."

Natasha, animated and excited, looked about her with wide-open frightened eyes and seemed merrier than usual. She understood hardly anything that went
on that evening. They danced the ecossaise and
the Grossvater. Her father asked her to come home, but she begged to remain. Wherever she went and whomever she was speaking to, she felt his eyes upon her. Later on she recalled how she had asked her father to let her go to the dressing room to rearrange her dress, that Helene had followed her and spoken laughingly of her brother's love, and that she again met Anatole in the little sitting room. Helene had disappeared leaving them alone, and Anatole had taken her hand and said in a tender voice:

"I cannot come to visit you but is it possible that I shall never see you? I love you madly. Can I never...?" and, blocking her path, he brought his face close to hers.

His large, glittering, masculine eyes were so close to hers that she saw nothing but them.

"Natalie?" he whispered inquiringly while she felt her hands being painfully pressed. "Natalie?"

"I don't understand. I have nothing to say," her eyes replied.

Burning lips were pressed to hers, and at the same instant she felt herself released, and Helene's footsteps and the rustle of her dress were heard in the room. Natasha looked round at her, and then, red and trembling, threw a frightened look of inquiry at Anatole and moved toward the door.

"One word, just one, for God's sake!" cried Anatole.

She paused. She so wanted a word from him that would explain to her what had happened and to which she could find no answer.

"Natalie, just a word, only one!" he kept repeating, evidently not knowing what to say and he repeated it till Helene came up to them.

Helene returned with Natasha to the drawing room. The Rostovs went away without staying for supper.

After reaching home Natasha did not sleep all night. She was tormented by the insoluble question whether she loved Anatole or Prince Andrew. She loved Prince Andrew--she remembered distinctly how deeply she loved him. But she also loved Anatole, of that there was no doubt. "Else how could all this have happened?" thought she.
"If, after that, I could return his smile when saying good-by, if I was able to let it come to that, it means that I loved him from the first. It means that he is kind, noble, and splendid, and I could not help loving him. What am I to do if I love him and the other one too?" she asked herself, unable to find an answer to these terrible questions.

CHAPTER XIV

Morning came with its cares and bustle. Everyone got up and began to

move about and talk, dressmakers came again. Marya Dmitrievna appeared, and they were called to breakfast. Natasha kept looking uneasily at everybody with wide-open eyes, as if wishing to intercept every glance directed toward her, and tried to appear the same as usual.

After breakfast, which was her best time, Marya Dmitrievna sat down in her armchair and called Natasha and the count to her.

"Well, friends, I have now thought the whole matter over and this is my advice," she began. "Yesterday, as you know, I went to see Prince Bolkonski.
Well, I had a talk with him.... He took it into his head to begin shouting, but I am not one to be shouted down. I said what I had to say!"

"Well, and he?" asked the count.

"He? He's crazy... he did not want to listen. But what's the use of talking? As it is we have worn the poor girl out," said Marya Dmitrievna. "My advice to you is finish your business and go back home to Otradnoe... and wait there."

"Oh, no!" exclaimed Natasha.

"Yes, go back," said Marya Dmitrievna, "and wait there. If your betrothed comes here now--there will be no avoiding a quarrel; but alone with the old man he will talk things over and then come on to you."

Count Rostov approved of this suggestion, appreciating its reasonableness. If the old man came round it would be all the better to visit him in Moscow or at Bald Hills later on; and if not, the wedding, against his wishes, could only be arranged at Otradnoe.

"That is perfectly true. And I am sorry I went to see him and took her," said the old count.

"No,
why be sorry? Being here, you had to pay your respects. But if he won't--that's his affair," said Marya Dmitrievna, looking for something in her reticule. "Besides, the trousseau is ready, so there is nothing to wait for; and what is not ready I'll send after you. Though I don't like letting you go, it is the best way. So go, with God's blessing!"

Having found what she was looking for in the reticule she handed it to Natasha. It was a letter from Princess Mary.

"She has written to you. How she torments herself, poor thing! She's afraid you might think that she does not like you."

"But she doesn't like me," said Natasha.

"Don't talk nonsense!" cried Marya Dmitrievna.

"I shan't believe anyone, I know she doesn't like me," replied Natasha boldly as she took the letter, and her face expressed a cold and angry resolution that caused Marya Dmitrievna to look at her more intently and to frown.

"Don't answer like that, my good girl!" she said. "What I say is true! Write an answer!"
Natasha did not reply and went to her own room to read Princess Mary's letter.

Princess Mary wrote that she was in despair at the misunderstanding that had occurred between them. Whatever her father's feelings might be, she begged Natasha to believe that she could not help loving her as the one chosen by her brother, for whose happiness she was ready to sacrifice everything.

"Do not think, however," she wrote, "that my father is ill-disposed toward you. He is an invalid and an old man who must be forgiven; but he is good and magnanimous and will love her who makes his son happy." Princess Mary went on to ask Natasha to fix a time when she could see her again.

After reading the letter Natasha sat down at the writing table to answer it. "Dear Princess," she wrote in French quickly and mechanically, and then paused. What more could she write after all that had happened the evening before? "Yes, yes! All that has happened, and now all is changed," she thought as she sat with the letter
she had begun before her. "Must I break off with him? Must I really? That's awful..." and to escape from these dreadful thoughts she went to Sonya and began sorting patterns with her.

After dinner Natasha went to her room and again took up Princess Mary's letter. "Can it be that it is all over?" she thought. "Can it be that all this has happened so quickly and has destroyed all that went before?" She recalled her love for Prince Andrew in all its former strength, and at the same time felt that she loved Kuragin. She vividly pictured herself as Prince Andrew's wife, and the scenes of happiness with him she had so often repeated in her imagination, and at the same time, aglow with excitement, recalled every detail of

yesterday's interview with Anatole.

"Why could that not be as well?" she sometimes asked herself in complete bewilderment. "Only so could I be completely happy; but now I have to choose, and I can't be happy without either of them. Only," she thought, "to tell Prince Andrew
what has happened or to hide it
from him are both equally impossible. But with that one nothing is spoiled. But am I really to abandon forever the joy of Prince Andrew's love, in which I have lived so long?"

"Please, Miss!" whispered a maid entering the room with a mysterious air. "A man told me to give you this-" and she handed Natasha a letter.

"Only, for Christ's sake..." the girl went on, as Natasha, without thinking, mechanically broke the seal and read a love letter from Anatole, of which, without taking in a word, she understood only that it was a letter from him--from the man she loved. Yes, she loved him, or else how could that have happened which had happened? And how could she have a love letter from him in her hand?

With trembling hands Natasha held that passionate love letter which Dolokhov had composed for Anatole, and as she read it she found in it an echo of all that she herself imagined she was feeling.

"Since yesterday evening my fate has been sealed; to be loved
by you
or to die. There is no other way for me," the letter began. Then he went on to say that he knew her parents would not give her to him--for this there were secret reasons he could reveal only to her--but that if she loved him she need only say the word yes, and no human power could hinder their bliss. Love would conquer all. He would steal her away and carry her off to the ends of the earth.

"Yes, yes! I love him!" thought Natasha, reading the letter for the twentieth time and finding some peculiarly deep meaning in each word of it.

That evening Marya Dmitrievna was going to the Akharovs' and proposed to take the girls with her. Natasha, pleading a headache, remained at home.

CHAPTER XV

On returning late in the evening Sonya went to Natasha's room, and to her surprise found her still dressed and asleep on the sofa. Open on the table, beside her lay Anatole's letter. Sonya picked it up and read it.

As she read she glanced at the sleeping Natasha, trying to find in her
face an explanation of what she was reading, but did not find it. Her face was calm, gentle, and happy. Clutching her breast to keep herself from choking, Sonya, pale and trembling with fear and agitation, sat down in an armchair and burst into tears.

"How was it I noticed nothing? How could it go so far? Can she have left off loving Prince Andrew? And how could she let Kuragin go to such lengths? He is a deceiver and a villain, that's plain! What will Nicholas, dear noble Nicholas, do when he hears of it? So this is the meaning of her excited, resolute, unnatural look the day before yesterday, yesterday, and today," thought Sonya. "But it can't be that she loves him! She probably opened the letter without knowing who it was from. Probably she is offended by it. She could not do such a thing!"

Sonya wiped away her tears and went up to Natasha, again scanning her face.

"Natasha!" she said, just audibly.

Natasha awoke and saw Sonya.

"Ah, you're back?"

And with the decision and tenderness
that often come at the moment
of awakening, she embraced her friend, but noticing Sonya's look of embarrassment, her own face expressed confusion and suspicion.

"Sonya, you've read that letter?" she demanded.

"Yes," answered Sonya softly.

Natasha smiled rapturously.

"No, Sonya, I can't any longer!" she said. "I can't hide it from you any longer. You know, we love one another! Sonya, darling, he writes... Sonya..."

Sonya stared open-eyed at Natasha, unable to believe her ears.

"And Bolkonski?" she asked.

"Ah, Sonya, if you only knew how happy I am!" cried Natasha. "You don't know what love is...."

"But, Natasha, can that be all over?"

Natasha looked at Sonya with wide-open eyes as if she could not grasp the question.

"Well, then, are you refusing Prince Andrew?" said Sonya.

"Oh, you don't understand anything! Don't talk nonsense, just listen!" said Natasha, with momentary vexation.

"But I can't believe it," insisted Sonya. "I don't understand. How is it you have loved a man for a whole year and suddenly... Why, you have only seen him three times! Natasha, I don't believe you, you're joking! In three days to forget everything and so..."

"Three days?" said Natasha. "It seems to me I've loved him a hundred years. It seems to me that I have never loved anyone before. You can't understand it.... Sonya, wait a bit, sit here," and Natasha embraced and kissed her.

"I had heard that it happens like this, and you must have heard it too, but it's only now that I feel such love. It's not the same as before. As soon as I saw him I felt he was my master and I his slave, and that I could not help loving him. Yes, his slave! Whatever he orders I shall do. You don't understand that. What can I do? What can I do, Sonya?" cried Natasha with a happy yet frightened expression.

"But think what you are doing," cried Sonya. "I can't leave it like this. This secret correspondence... How could you let him go so far?" she went on, with a horror and disgust she could hardly conceal.

"I told you that I have no will," Natasha replied. "Why can't you understand? I love him!"

"Then I won't let it come to that... I shall tell!" cried Sonya, bursting into tears.

"What do you mean? For God's sake... If you tell, you are my enemy!"

declared Natasha. "You want me to be miserable, you want us to be separated...."

When she saw Natasha's fright, Sonya shed tears of shame and pity for her friend.

"But what has happened between you?" she asked. "What has he said to you? Why doesn't he come to the house?"

Natasha did not answer her questions.

"For God's sake, Sonya, don't tell anyone, don't torture me," Natasha entreated. "Remember no one ought to interfere in such matters! I have confided in you...."

"But why this secrecy? Why doesn't he come to the house?" asked Sonya. "Why doesn't he openly ask for your hand? You know Prince Andrew gave you complete freedom--if it is really so; but I don't believe it! Natasha, have you considered what these secret reasons can be?"

Natasha
looked at Sonya with astonishment. Evidently this question presented itself to her mind for the first time and she did not know how to answer it.

"I don't know what the reasons are. But there must be reasons!"

Sonya sighed and shook her head incredulously.

"If there were reasons..." she began.

But Natasha, guessing her doubts, interrupted her in alarm.

"Sonya, one can't doubt him! One can't, one can't! Don't you understand?" she cried.

"Does he love you?"

"Does he love me?" Natasha repeated with a smile of pity at her friend's lack of comprehension. "Why, you have read his letter and you have seen him."

"But if he is dishonorable?"

"He! dishonorable? If you only knew!" exclaimed Natasha.

"If he is an honorable man he should either declare his intentions

or cease seeing you; and if you won't do this, I will. I will write to him, and I will tell Papa!" said Sonya resolutely.

"But I can't live without him!" cried Natasha.

"Natasha, I don't understand you. And what are you saying! Think of your father and of Nicholas."

"I don't want anyone, I don't love anyone but him. How dare you say he is dishonorable? Don't you know that I love him?" screamed Natasha. "Go away, Sonya! I don't want to quarrel with you, but go, for God's sake go! You see how I am suffering!" Natasha cried angrily, in a voice of despair and repressed irritation. Sonya burst into sobs and ran from the room.

Natasha went to the table and without a moment's reflection wrote that answer to Princess Mary which she had been unable to write all the morning. In this letter she said briefly that all their misunderstandings were at an end; that availing herself of the magnanimity of Prince Andrew who when he went abroad had given her her freedom, she begged Princess Mary to forget everything and forgive her if she had been to blame toward her, but that she could not be his wife. At that moment this all seemed quite easy, simple, and clear to Natasha.

On Friday the Rostovs were to return to the country, but on Wednesday the count went with the prospective purchaser to his estate near Moscow.

On the day the count left, Sonya and Natasha were invited to a big dinner party at the Karagins', and Marya Dmitrievna took them there. At that party Natasha again met Anatole, and Sonya noticed that she spoke to him, trying not to be overheard, and that all through dinner she was more agitated than ever. When they got home Natasha was the first to begin the explanation Sonya expected.

"There, Sonya, you were talking all sorts of nonsense about him," Natasha began in a mild voice such as children use when they wish to be praised. "We have had an explanation today."

"Well, what happened? What did he say? Natasha, how glad I am you're not angry with me! Tell me everything--the whole truth. What did he say?"

Natasha became thoughtful.

"Oh, Sonya, if you knew him as I do! He said... He asked me what I had promised Bolkonski. He was glad I was free to refuse him."

Sonya sighed
sorrowfully.

"But you haven't refused Bolkonski?" said she.

"Perhaps I have. Perhaps all is over between me and Bolkonski. Why do you think so badly of me?"

"I don't think anything, only I don't understand this..."

"Wait a bit, Sonya, you'll understand everything. You'll see what a man he is! Now don't think badly of me or of him. I don't think badly of anyone: I love and pity everybody. But what am I to do?"

Sonya did not succumb to the tender tone Natasha used toward her. The more emotional and ingratiating the expression of Natasha's face became, the more serious and stern grew Sonya's.

"Natasha," said she, "you asked me not to speak to you, and I haven't spoken, but now you yourself have begun. I don't trust him, Natasha. Why this secrecy?"

"Again, again!" interrupted Natasha.

"Natasha, I am afraid for you!"

"Afraid of what?"

"I am afraid you're going to your ruin," said Sonya resolutely, and was herself horrified at what she had said.

Anger again showed in Natasha's
face.

"And I'll go to my ruin, I will, as soon as possible! It's not your business! It won't be you, but I, who'll suffer. Leave me alone, leave me alone! I hate you!"

"Natasha!" moaned Sonya, aghast.

"I hate you, I hate you! You're my enemy forever!" And Natasha ran out of the room.

Natasha did not speak to Sonya again and avoided her. With the same expression of agitated surprise and guilt she went about the

house, taking up now one occupation, now another, and at once abandoning them.

Hard as it was for Sonya, she watched her friend and did not let her out of her sight.

The day before the count was to return, Sonya noticed that Natasha sat by the drawingroom window all the morning as if expecting something and that she made a sign to an officer who drove past, whom Sonya took to be Anatole.

Sonya began watching her friend still more attentively and noticed that at dinner and all that evening Natasha was in a strange and unnatural state. She answered questions at random, began sentences she did not finish, and laughed at everything.

After tea Sonya noticed a housemaid at Natasha's door timidly waiting to let her pass. She let the girl go in, and then listening at the door learned that another letter had been delivered.

Then suddenly it became clear to Sonya that Natasha had some dreadful plan for that evening. Sonya knocked at her door. Natasha did not let her in.

"She will run away with him!" thought Sonya. "She is capable of anything. There was something particularly pathetic and resolute in her face today. She cried as she said good-by to Uncle," Sonya remembered. "Yes, that's it, she means to elope with him, but what am I to do?" thought she, recalling all the signs that clearly indicated that Natasha had some terrible intention. "The count is away. What am I to do? Write to Kuragin demanding an explanation? But what is there to oblige him to reply? Write to Pierre, as Prince Andrew asked me to in case of some misfortune?... But perhaps she really has already refused Bolkonski--she sent a letter to Princess Mary yesterday. And Uncle is away...." To tell Marya Dmitrievna who had such faith in Natasha seemed to Sonya terrible. "Well, anyway," thought Sonya as she stood in the dark passage, "now or never I must prove that I remember the family's goodness to me and that I love Nicholas. Yes! If I don't sleep for three nights I'll not leave this passage and will hold her back by force and will and not let the family be disgraced," thought she.

CHAPTER XVI

Anatole had lately moved to Dolokhov's. The plan for Natalie Rostova's abduction had been arranged and the preparations made by Dolokhov a few days before, and on the day that Sonya, after listening at Natasha's door, resolved to safeguard her, it was to have been put into execution. Natasha had promised to come out to Kuragin at the back porch at ten that evening. Kuragin was to put her into a troyka he would have ready and to drive her forty miles to the village of Kamenka,
where an unfrocked priest was in readiness to perform a marriage ceremony over them. At Kamenka a relay of horses was to wait which would take them to the Warsaw highroad, and from there they would hasten abroad with post horses.

Anatole had a passport, an order for post horses, ten thousand rubles he had taken from his sister and another ten thousand borrowed with Dolokhov's help.

Two witnesses for the mock marriage--Khvostikov, a retired petty official whom Dolokhov made use of in his gambling transactions, and Makarin, a retired hussar, a kindly, weak fellow who had an unbounded affection for Kuragin--were sitting at tea in Dolokhov's front room.

In his large study, the walls of which were hung to the ceiling with Persian rugs, bearskins, and weapons, sat Dolokhov in a traveling cloak and high boots, at an open desk on which lay abacus and some bundles of paper money. Anatole, with uniform unbuttoned, walked to and fro from the room where the witnesses were sitting, through the study
to the room behind, where his French valet and others were packing the last of his things. Dolokhov was counting the money and noting something down.

"Well," he said, "Khvostikov must have two thousand."

"Give it to him, then," said Anatole.

"Makarka" (their name for Makarin) "will go through fire and water for you for nothing. So here are our accounts all settled," said Dolokhov, showing him the memorandum. "Is that right?"

"Yes, of course," returned Anatole, evidently not listening to Dolokhov and looking straight before him with a smile that did not leave his face.

Dolokhov banged down the or of his and turned to Anatole with an ironic smile:

"Do you know? You'd really better drop it all. There's still time!"

"Fool," retorted Anatole. "Don't talk nonsense! If you only knew... it's the devil knows what!"

"No, really, give it up!" said Dolokhov. "I am speaking seriously. It's no joke, this plot you've hatched."

"What, teasing again? Go to the devil! Eh?" said Anatole, making a grimace. "Really it's no time for your stupid jokes," and he left the room.

Dolokhov smiled contemptuously and condescendingly when Anatole had gone out.

"You wait a bit," he called after him. "I'm not joking, I'm talking sense. Come here, come here!"

Anatole returned and looked at Dolokhov, trying to give him his attention and evidently submitting to him involuntarily.

"Now listen to me. I'm telling you this for the last time. Why should I joke about it? Did I hinder you? Who arranged everything for you? Who found the priest and got the passport? Who raised the money? I did it all."

"Well, thank you for it. Do you think I am not grateful?" And Anatole sighed and embraced Dolokhov.

"I helped you, but all the same I must tell you the truth; it is a dangerous business, and if you think about it--a stupid business. Well, you'll carry her off--all right! Will they let it stop at that? It will come out that you're already married. Why, they'll have you in the criminal court...."

"Oh, nonsense, nonsense!" Anatole ejaculated and again made a grimace. "Didn't I explain to you? What?" And Anatole, with the partiality dull-witted people have for any conclusion they have reached by their own reasoning, repeated the argument he had already put to Dolokhov a hundred times. "Didn't I explain to you that I have come to this conclusion: if this marriage is invalid," he went on, crooking one finger, "then I have nothing to answer for; but if it is valid, no matter! Abroad no one will know anything about it.

Isn't that so? And don't talk to me, don't, don't."

"Seriously, you'd better drop it! You'll only get yourself into a mess!"

"Go to the devil!" cried Anatole and, clutching his hair, left the room, but returned at once and dropped into an armchair in front of Dolokhov with his feet turned under him. "It's the very devil! What? Feel how it beats!" He took Dolokhov's hand and put it on his heart. "What a foot, my dear fellow! What a glance! A goddess!" he added in French.
"What?"

Dolokhov with a cold smile and a gleam in his handsome insolent eyes looked at him--evidently wishing to get some more amusement out of him.

"Well and when the money's gone, what then?"

"What then? Eh?" repeated Anatole, sincerely perplexed by a thought of the future. "What then?... Then, I don't know.... But why talk nonsense!" He glanced at his watch. "It's time!"

Anatole went into the back room.

"Now then! Nearly ready? You're dawdling!" he shouted to the servants.

Dolokhov put away the money, called a footman whom he ordered to bring something for them to eat and drink before the journey, and went into the room where Khvostikov and Makarin were sitting.

Anatole lay on the sofa in the study leaning on his elbow and smiling pensively, while his handsome lips muttered tenderly to himself.

"Come and eat something. Have a drink!" Dolokhov shouted to him from the other room.

"I don't want to," answered Anatole continuing to smile.

"Come! Balaga is here."

Anatole
rose and went into the dining room. Balaga was a famous troyka driver who had known Dolokhov and Anatole some six years and had given them good service with his troykas. More than once when Anatole's regiment was stationed at Tver he had taken him from Tver in

the evening, brought him to Moscow by daybreak, and driven him back again the next night. More than once he had enabled Dolokhov to escape when pursued. More than once he had driven them through the town with gypsies and "ladykins" as he called the cocottes. More than once in their service he had run over pedestrians and upset vehicles in the streets of Moscow and had always been protected from the consequences by "my gentlemen" as he called them. He had ruined more than one horse in their service. More than once they had beaten him, and more than once they had made him drunk on champagne and Madeira, which he loved; and he knew more than one thing about each of them which would long ago have sent an ordinary man to Siberia. They often
called Balaga into their orgies and made him drink and dance at the gypsies', and more than one thousand rubles of their money had passed through his hands. In their service he risked his skin and his life twenty times a year, and in their service had lost more horses than the money he had from them would buy. But he liked them; liked that mad driving at twelve miles an hour, liked upsetting a driver or running down a pedestrian, and flying at full gallop through the Moscow streets. He liked to hear those wild, tipsy shouts behind him: "Get on! Get on!" when it was impossible to go any faster. He liked giving a painful lash on the neck to some peasant who, more dead than alive, was already hurrying out of his way. "Real gentlemen!" he considered them.

Anatole and Dolokhov liked Balaga too for his masterly driving and because he liked the things they liked. With others Balaga bargained, charging twenty-five rubles for a two hours' drive, and rarely drove himself, generally letting
his young men do so. But
with "his gentlemen" he always drove himself and never demanded anything for his work. Only a couple of times a year--when he knew from their valets that they had money in hand--he would turn up of a morning quite sober and with a deep bow would ask them to help him. The gentlemen always made him sit down.

"Do help me out, Theodore Ivanych, sir," or "your excellency," he would say. "I am quite out of horses. Let me have what you can to go to the fair."

And Anatole and Dolokhov, when they had money, would give him a thousand or a couple of thousand rubles.

Balaga was a fair-haired, short, and snub-nosed peasant of about twenty-seven; red-faced, with a particularly red thick neck, glittering little eyes, and a small beard. He wore a fine, dark-blue, silk-lined cloth coat over a sheepskin.

On entering the room now he crossed himself, turning toward the front corner of the room, and went up to Dolokhov, holding out a small, black hand.

"Theodore Ivanych!"
he said, bowing.

"How d'you do, friend? Well, here he is!"

"Good day, your excellency!" he said, again holding out his hand to Anatole who had just come in.

"I say, Balaga," said Anatole, putting his hands on the man's shoulders, "do you care for me or not? Eh? Now, do me a service.... What horses have you come with? Eh?"

"As your messenger ordered, your special beasts," replied Balaga.

"Well, listen, Balaga! Drive all three to death but get me there in three hours. Eh?"

"When they are dead, what shall I drive?" said Balaga with a wink.

"Mind, I'll smash your face in! Don't make jokes!" cried Anatole, suddenly rolling his eyes.

"Why joke?" said the driver, laughing. "As if I'd grudge my gentlemen anything! As fast as ever the horses can gallop, so fast we'll go!"

"Ah!" said Anatole. "Well, sit down."

"Yes, sit down!" said Dolokhov.

"I'll stand, Theodore Ivanych."

"Sit down; nonsense! Have a drink!" said Anatole, and filled a large glass of Madeira for him.

The driver's eyes
sparkled at the sight of the wine. After
refusing it for manners' sake, he drank it and wiped his mouth with a red silk handkerchief he took out of his cap.

"And when are we to start, your excellency?"

"Well..." Anatole looked at his watch. "We'll start at once. Mind, Balaga! You'll get there in time? Eh?"

"That depends on our luck in starting, else why shouldn't we be there in time?" replied Balaga. "Didn't we get you to Tver in seven hours? I think you remember that, your excellency?"

"Do you know, one Christmas I drove from Tver," said Anatole, smilingly at the recollection and turning to Makarin who gazed rapturously at him with wide-open eyes. "Will you believe it, Makarka, it took one's breath away, the rate we flew. We came across a train of loaded sleighs and drove right over two of them. Eh?"

"Those were horses!" Balaga continued the tale. "That time I'd harnessed two young side horses with the bay in the shafts," he went on, turning to Dolokhov. "Will you believe it, Theodore Ivanych, those animals flew forty miles? I couldn't hold them in, my hands grew numb in the sharp frost so that I threw down the reins--'Catch hold yourself, your excellency!' says I, and I just tumbled on the bottom of the sleigh and sprawled there. It wasn't a case of urging them on, there was no holding them in till we reached the place. The devils took us there in three hours! Only the near one died of it."

CHAPTER XVII

Anatole went out of the room and returned a few minutes later wearing a fur coat girt with a silver belt, and a sable cap jauntily set on one side and very becoming to his handsome face. Having looked in a mirror, and standing before Dolokhov in the same pose he had assumed before it, he lifted a glass of wine.

"Well, good-by, Theodore. Thank you for everything and farewell!" said Anatole. "Well, comrades and friends..." he considered for a moment "...of my youth, farewell!" he said, turning to Makarin and the others.

Though they were all going with him, Anatole evidently wished to make something touching and solemn out of this address to his comrades. He spoke slowly in a loud voice and throwing out his chest slightly swayed one leg.

"All take glasses; you too, Balaga. Well, comrades and friends of my youth, we've had our fling and lived and reveled. Eh? And now, when

shall we meet again? I am going abroad. We have had a good time--now farewell, lads! To our health! Hurrah!..." he cried, and emptying his glass flung it on the floor.

"To your health!" said Balaga who also emptied his glass, and wiped his mouth with his handkerchief.

Makarin embraced Anatole with tears in his eyes.

"Ah, Prince, how sorry I am to part from you!

"Let's go. Let's go!" cried Anatole.

Balaga was about to leave the room.

"No, stop!" said Anatole. "Shut the door; we have first to sit down. That's the way."

They shut the door and all sat down.

"Now, quick march, lads!" said Anatole, rising.

Joseph, his valet, handed him his sabretache and saber, and they all went out into the vestibule.

"And where's the fur cloak?" asked Dolokhov. "Hey, Ignatka! Go to Matrena Matrevna and ask her for the sable cloak. I have heard what elopements are like," continued Dolokhov with a wink. "Why, she'll rush out more dead than alive just in the things she is wearing; if you delay at all there'll be tears and 'Papa' and 'Mamma,' and she's frozen in a minute and must go back--but you wrap the fur cloak round her first thing and carry her to the sleigh."

The valet brought a woman's fox-lined cloak.

"Fool, I told you the sable one! Hey, Matrena, the sable!" he shouted so that his voice rang far through the rooms.

A handsome, slim, and pale-faced gypsy girl with glittering black eyes and curly blue-black hair, wearing a red shawl, ran out with a sable mantle on her arm.

"Here, I don't grudge it--take it!" she said, evidently afraid of her master and yet regretful of her cloak.

Dolokhov, without answering, took the cloak, threw it over Matrena,

and wrapped her up in it.

"That's the way," said Dolokhov, "and then so!" and he turned the collar up round her head, leaving only a little of the face uncovered. "And then so, do you see?" and he pushed Anatole's head forward to meet the gap left by the collar, through which Matrena's brilliant smile was seen.

"Well, good-by, Matrena," said Anatole, kissing her. "Ah, my revels here are over. Remember me to Steshka. There, good-by! Good-by, Matrena, wish me luck!"

"Well, Prince, may God give you great luck!" said Matrena in her gypsy accent.

Two troykas were standing before the porch and two young drivers were holding the horses. Balaga took his seat in the front one and holding his elbows high arranged the reins deliberately. Anatole and Dolokhov got in with him. Makarin, Khvostikov, and a valet seated themselves in the other sleigh.

"Well, are you ready?" asked Balaga.

"Go!" he cried, twisting the reins round his hands, and the troyka tore down the Nikitski Boulevard.

"Tproo!
Get out of the way! Hi!... Tproo!..." The shouting of Balaga and of the sturdy young fellow seated on the box was all that could be heard. On the Arbat Square the troyka caught against a carriage; something cracked, shouts were heard, and the troyka flew along the Arbat Street.

After taking a turn along the Podnovinski Boulevard, Balaga began to rein in, and turning back drew up at the crossing of the old Konyusheny Street.

The young fellow on the box jumped down to hold the horses and Anatole and Dolokhov went along the pavement. When they reached the gate Dolokhov whistled. The whistle was answered, and a maidservant ran out.

"Come into the courtyard or you'll be seen; she'll come out directly," said she.

Dolokhov stayed by the gate. Anatole followed the maid into the courtyard, turned the corner, and ran up into the porch.

He was met by Gabriel, Marya Dmitrievna's gigantic footman.

"Come to the mistress, please," said the footman in his deep bass, intercepting any retreat.

"To what Mistress? Who are you?" asked Anatole in a breathless whisper.

"Kindly step in, my orders are to bring you in."

"Kuragin! Come back!" shouted Dolokhov. "Betrayed! Back!"

Dolokhov, after Anatole entered, had remained at the wicket gate and was struggling with the yard porter who was trying to lock it. With a last desperate effort Dolokhov pushed the porter aside, and when Anatole ran back seized him by the arm, pulled him through the wicket, and ran back with him to the troyka.

CHAPTER XVIII

Marya Dmitrievna, having found Sonya weeping in the corridor, made her confess everything, and intercepting the note to Natasha she read it and went into Natasha's room with it in her hand.

"You shameless good-for-nothing!" said she. "I won't hear a word."

Pushing back Natasha who looked at her with astonished but tearless eyes, she locked her in; and having given orders to the yard porter to admit the persons who would be coming that evening, but not to let them out again, and having told the footman to bring them up to her, she seated herself in the drawing room to await the abductors.

When Gabriel came to inform her that the men who had come had run away again, she rose frowning, and clasping her hands behind her paced through the rooms a long time considering what she should do. Toward midnight she went to Natasha's room fingering the key in her pocket. Sonya was sitting sobbing in the corridor. "Marya Dmitrievna, for God's sake let me in to her!" she pleaded, but Marya Dmitrievna unlocked the door and went in without giving her an answer.... "Disgusting, abominable... In my house... horrid girl, hussy! I'm only

sorry for her father!" thought she, trying to restrain her wrath. "Hard as it may be, I'll tell them all to hold their tongues and will hide it from the count." She entered the room with resolute steps. Natasha lying on the sofa, her head hidden in her hands, and she did not stir. She was in just the same position in which Marya Dmitrievna had left her.

"A nice girl! Very nice!" said Marya Dmitrievna. "Arranging meetings with lovers in my house! It's no use pretending: you listen when I speak to you!" And Marya Dmitrievna touched her arm. "Listen when when I speak! You've disgraced yourself like the lowest of hussies. I'd treat you differently, but I'm sorry for your father, so I will conceal it."

Natasha did not change her position, but her whole body heaved with noiseless, convulsive sobs which choked her. Marya Dmitrievna glanced round at Sonya and seated herself on the sofa beside Natasha.

"It's lucky for him that he escaped me; but I'll find him!" she said in her rough voice. "Do you hear what I am saying or not?" she added.

She put her large hand under Natasha's face and turned it toward her. Both Marya Dmitrievna and Sonya were amazed when they saw how Natasha looked. Her eyes were dry and glistening, her lips compressed, her cheeks sunken.

"Let me be!... What is it to me?... I shall die!" she muttered, wrenching herself from Marya Dmitrievna's hands with a vicious effort and sinking down again into her former position.

"Natalie!" said Marya Dmitrievna. "I wish for your good. Lie still, stay like that then, I won't touch you. But listen. I won't tell you how guilty you are. You know that yourself. But when your father comes back tomorrow what am I to tell him? Eh?"

Again Natasha's body shook with sobs.

"Suppose he finds out, and your brother, and your betrothed?"

"I have no betrothed: I have refused him!" cried Natasha.

"That's all the same," continued Dmitrievna. "If they hear of this, will they let it pass? He, your father, I know him... if he challenges him to a duel will that be all right? Eh?"

"Oh, let me be! Why have you interfered at all? Why? Why? Who

asked you to?" shouted Natasha, raising herself on the sofa and looking malignantly at Marya Dmitrievna.

"But what did you want?" cried Marya Dmitrievna, growing angry again. "Were you kept under lock and key? Who hindered his coming to the house? Why carry you off as if you were some gypsy singing girl?... Well, if he had carried you off... do you think they wouldn't have found him? Your father, or brother, or your betrothed? And he's a scoundrel, a wretch--that's a fact!"

"He is better than any of you!" exclaimed Natasha getting up. "If you hadn't interfered... Oh, my God! What is it all? What is it? Sonya, why?... Go away!"

And she burst into sobs with the despairing vehemence with which people bewail disasters they feel they have themselves occasioned. Marya Dmitrievna was to speak again but Natasha cried out:

"Go away! Go away! You all hate and despise me!" and she threw herself back on the sofa.

Marya Dmitrievna went on admonishing her for some time, enjoining on her that it must all be kept from her father and assuring her that nobody would know anything about it if only Natasha herself would undertake to forget it all and not let anyone see that something had happened. Natasha did not reply, nor did she sob any longer, but she grew cold and had a shivering fit. Marya Dmitrievna put a pillow under her head, covered her with two quilts, and herself brought her some lime-flower water, but Natasha did not respond to her.

"Well, let her sleep," said Marya Dmitrievna as she went of the room supposing Natasha to be asleep.

But Natasha was not asleep; with pale face and fixed wide-open eyes she looked straight before her. All that night she did not sleep or weep and did not speak to Sonya who got up and went to her several times.

Next day Count Rostov returned from his estate near Moscow in time for lunch as he had promised. He was in very good spirits; the affair with the purchaser was going on satisfactorily, and there was nothing to keep him any longer in Moscow, away from the countess whom he missed. Marya Dmitrievna met him and told him that Natasha had been very unwell the day before and that they had sent for the doctor, but that she was better now. Natasha had not left her room that morning.

With compressed and parched lips and dry fixed eyes, she sat at the window, uneasily watching the people who drove past and hurriedly glancing round at anyone who entered the room. She was evidently expecting news of him and that he would come or would write to her.

When the count came to see her she turned anxiously round at the sound of a man's footstep, and then her face resumed its cold and malevolent expression. She did not even get up to greet him. "What is the matter with you, my angel? Are you ill?" asked the count.

After a moment's silence Natasha answered: "Yes, ill."

In reply to the count's anxious inquiries as to why she was so dejected and whether anything had happened to her betrothed, she assured him that nothing had happened and asked him not to worry. Marya Dmitrievna confirmed Natasha's assurances that nothing had happened. From the pretense of illness, from his daughter's distress, and by the embarrassed faces of Sonya and Marya Dmitrievna, the count saw clearly that something had gone wrong during his absence, but it was so terrible for him to think that anything disgraceful had happened to his beloved daughter, and he so prized his own cheerful tranquillity, that he avoided inquiries and tried to assure himself that nothing particularly had happened; and he was only dissatisfied that her indisposition delayed their return to the country.

CHAPTER XIX

From the day his wife arrived in Moscow Pierre had been intending to go away somewhere, so as not to be near her. Soon after the Rostovs came to Moscow the effect Natasha had on him made him hasten to carry out his intention. He went to Tver to see Joseph Alexeevich's widow, who had long since promised to hand over to him some papers of her deceased husband's.

When he returned to Moscow Pierre was handed a letter from Marya Dmitrievna asking him to come and see her on a matter of great importance relating to Andrew Bolkonski and his betrothed. Pierre had been avoiding Natasha because it seemed to him that his feeling for her was stronger than a married man's should be for his friend's

fiancee. Yet some fate constantly threw them together.

"What can have happened? And what can they want with me?" thought he as he dressed to go to Marya Dmitrievna's. "If only Prince Andrew would hurry up and come and marry her!" thought he on his way to the house.

On the Tverskoy Boulevard a familiar voice called to him.

"Pierre! Been back long?" someone shouted. Pierre raised his head. In a sleigh drawn by two gray trotting-horses that were bespattering the dashboard with snow, Anatole and his constant companion Makarin dashed past. Anatole was sitting upright in the classic pose of military dandies, the lower part of his face hidden by his beaver collar and his head slightly bent. His face was fresh and rosy, his white-plumed hat, tilted to one side, disclosed his curled and pomaded hair besprinkled with powdery snow.

"Yes, indeed, that's a true sage," thought Pierre. "He sees nothing beyond the pleasure of the moment, nothing troubles him and so he is always cheerful, satisfied, and serene. What wouldn't I give to be like him!" he thought enviously.

In Marya Dmitrievna's anteroom the footman who helped him off with his fur coat said that the mistress asked him to come to her bedroom.

When he opened the ballroom door Pierre saw Natasha sitting at the window, with a thin, pale, and spiteful face. She glanced round at him, frowned, and left the room with an expression of cold dignity.

"What has happened?" asked Pierre, entering Marya Dmitrievna's room.

"Fine doings!" answered Dmitrievna. "For fifty-eight years have I lived in this world and never known anything so disgraceful!"

And having put him on his honor not to repeat anything she told him, Marya Dmitrievna informed him that Natasha had refused Prince Andrew without her parents' knowledge and that the cause of this was Anatole Kuragin into whose society Pierre's wife had thrown her and with whom Natasha had tried to elope during her father's absence, in order to be married secretly.

Pierre raised his shoulders and listened open-mouthed to what was told him, scarcely able to believe his own ears. That Prince Andrew's deeply loved affianced wife--the same Natasha Rostova who used to be so charming--should give up Bolkonski for that fool Anatole

who was already secretly married (as Pierre knew), and should be so in love with him as to agree to run away with him, was something Pierre could not conceive and could not imagine.

He could not reconcile the charming impression he had of Natasha, whom he had known from a child, with this new conception of her baseness, folly, and cruelty. He thought of his wife. "They are all alike!" he said to himself, reflecting that he was not the only man unfortunate enough to be tied to a bad woman. But still he pitied Prince Andrew to the point of tears and sympathized with his wounded pride, and the more he pitied his friend the more did he think with contempt and even with disgust of that Natasha who had just passed him in the ballroom with such a look of cold dignity. He did not know that Natasha's soul was overflowing with despair, shame, and humiliation, and that it was not her fault that her face happened to assume an expression of calm dignity and severity.

"But how get married?" said Pierre, in answer to Marya Dmitrievna. "He could not marry--he is married!"

"Things get worse from hour to hour!" ejaculated Marya Dmitrievna. "A nice youth! What a scoundrel! And she's expecting him--expecting him since yesterday. She must be told! Then at least she won't go on expecting him."

After hearing the details of Anatole's marriage from Pierre, and giving vent to her anger against Anatole in words of abuse, Marya Dmitrievna told Pierre why she had sent for him. She was afraid that the count or Bolkonski, who might arrive at any moment, if they knew of this affair (which she hoped to hide from them) might challenge Anatole to a duel, and she therefore asked Pierre to tell his brother-in-law in her name to leave Moscow and not dare to let her set eyes on him again. Pierre--only now realizing the danger to the old count, Nicholas, and Prince Andrew--promised to do as she wished. Having briefly and exactly explained her wishes to him, she let him go to the drawing room.

"Mind, the count knows nothing. Behave as if you know nothing either," she said. "And I will go and tell her it is no use expecting him! And stay to dinner if you care to!" she called after Pierre.

Pierre met the old count, who seemed nervous and upset. That morning Natasha had told him that she had rejected Bolkonski.

"Troubles, troubles, my dear fellow!" he said to Pierre. "What

troubles one has with these girls without their mother! I do so regret having come here.... I will be frank with you. Have you heard she has broken off her engagement without consulting anybody? It's true this engagement never was much to my liking. Of course he is an excellent man, but still, with his father's disapproval they wouldn't have been happy, and Natasha won't lack suitors. Still, it has been going on so long, and to take such a step without father's or mother's consent! And now she's ill, and God knows what! It's hard, Count, hard to manage daughters in their mother's absence...."

Pierre saw that the count was much upset and tried to change the subject, but the count returned to his troubles.

Sonya entered the room with an agitated face.

"Natasha is not quite well; she's in her room and would like to see you. Marya Dmitrievna is with her and she too asks you to come."

"Yes, you are a great friend of Bolkonski's, no doubt she wants to send him a message," said the count. "Oh dear! Oh dear! How happy it all was!"

And clutching the spare gray locks on his temples the count left the room.

When Marya Dmitrievna told Natasha that Anatole was married, Natasha did not wish to believe it and insisted on having it confirmed by Pierre himself.
Sonya told Pierre this as she led him along the corridor to Natasha's room.

Natasha, pale and stern, was sitting beside Marya Dmitrievna, and her eyes, glittering feverishly, met Pierre with a questioning look the moment he entered. She did not smile or nod, but only gazed fixedly at him, and her look asked only one thing: was he a friend, or like the others an enemy in regard to Anatole? As for Pierre, he evidently did not exist for her.

"He knows all about it," said Marya Dmitrievna pointing to Pierre and addressing Natasha. "Let him tell you whether I have told the truth."

Natasha looked from one to the other as a hunted and wounded animal looks at the approaching dogs and sportsmen.

"Natalya Ilynichna," Pierre began, dropping his eyes with a feeling of pity for her and loathing for the thing he had to do,

"whether it is true or not should make no difference to you, because..."

"Then it is not true that he's married!"

"Yes, it is true."

"Has he been married long?" she asked. "On your honor?..."

Pierre gave his word of honor.

"Is he still here?" she asked, quickly.

"Yes, I have just seen him."

She was evidently unable to speak and made a sign with her hands that they should leave her alone.

CHAPTER XX

Pierre did not stay for dinner, but left the room and went away at once. He drove through the town seeking Anatole Kuragin, at the thought of whom now the blood rushed to his heart and he felt a difficulty in breathing. He was not at the ice hills, nor at the gypsies', nor at Komoneno's. Pierre drove to the Club. In the Club all was going on as usual. The members who were assembling for dinner were sitting about in groups; they greeted Pierre and spoke of the town news. The footman having greeted him, knowing his habits and his acquaintances, told him there was a place left for him in the small dining room and that Prince Michael Zakharych was in the library, but Paul Timofeevich had not yet arrived. One of Pierre's acquaintances, while they were talking about the weather, asked if he had heard of Kuragin's abduction of Rostova which was talked of in the town, and was it true? Pierre laughed and said it was nonsense for he had just come from the Rostovs'. He asked everyone about Anatole. One man told him he had not come yet, and another that he was coming to dinner. Pierre felt it strange to see this calm, indifferent crowd of people unaware of what was going on in his soul. He paced through the ballroom, waited till everyone had come, and as Anatole had not turned up did not stay for dinner but drove home.

Anatole, for whom Pierre was looking, dined that day with Dolokhov, consulting him as to how to remedy this unfortunate affair. It seemed to him essential to see Natasha. In the evening he drove to his sister's to discuss with her how to arrange a meeting. When Pierre returned home after vainly hunting all over Moscow, his valet informed him that Prince Anatole was with the countess. The countess' drawing room was full
of guests.

Pierre without greeting his wife whom he had not seen since his return--at that moment she was more repulsive to him than ever-entered the drawing room and seeing Anatole went up to him.

"Ah, Pierre," said the countess going up to her husband. "You don't know what a plight our Anatole..."

She stopped, seeing in the forward thrust of her husband's head, in his glowing eyes and his resolute gait, the terrible indications of that rage and strength which she knew and had herself experienced after his duel with Dolokhov.

"Where you are, there is vice and evil!" said Pierre to his wife. "Anatole, come with me! I must speak to you," he added in French.

Anatole glanced round at his sister and rose submissively, ready to follow Pierre. Pierre, taking him by the arm, pulled him toward himself and was leading him from the room.

"If you allow yourself in my drawing room..." whispered Helene, but Pierre did not reply and went out of the room.

Anatole followed him with his usual
jaunty step but his face
betrayed anxiety.

Having entered his study Pierre closed the door and addressed Anatole without looking at him.

"You promised Countess Rostova to marry her and were about to elope with her, is that so?"

"Mon cher," answered Anatole (their whole conversation was in French), "I don't consider myself bound to answer questions put to me in that tone."

Pierre's face, already pale, became distorted by fury. He seized Anatole by the collar of his uniform with his big hand and shook him

from side to side till Anatole's face showed a sufficient degree of terror.

"When I tell you that I must talk to you!..." repeated Pierre.

"Come now, this is stupid. What?" said Anatole, fingering a button of his collar that had been wrenched loose with a bit of the cloth.

"You're a scoundrel and a blackguard, and I don't know what deprives me from the pleasure of smashing your head with this!" said Pierre, expressing himself so artificially because he was talking French.

He took
a heavy paperweight and lifted it threateningly, but at once put it back in its place.

"Did you promise to marry her?"

"I... I didn't think of it. I never promised, because..."

Pierre interrupted him.

"Have you any letters of hers? Any letters?" he said, moving toward Anatole.

Anatole glanced at him and immediately thrust his hand into his pocket and drew out his pocketbook.

Pierre took the letter Anatole handed him and, pushing aside a table that stood in his way, threw himself on the sofa.

"I shan't be violent, don't be afraid!" said Pierre in answer to a frightened gesture of Anatole's. "First, the letters," said he, as if repeating a lesson to himself. "Secondly," he continued after a short pause, again rising and again pacing the room, "tomorrow you must get out of Moscow."

"But how can I?..."

"Thirdly," Pierre continued without listening to him, "you must never breathe a word of what has passed between you and Countess Rostova. I know I can't prevent your doing so, but
if you have a spark
of conscience..." Pierre paced the room several times in silence.

Anatole sat at a table frowning and biting his lips.

"After all, you must understand that besides your pleasure there

is such a thing as other people's happiness and peace, and that you are ruining a whole life for the sake of amusing yourself! Amuse yourself with women like my wife--with them you are within your rights, for they know what you want of them. They are armed against you by the same experience of debauchery; but to promise a maid to marry her... to deceive, to kidnap.... Don't you understand that it is as mean as beating an old man or a child?..."

Pierre paused and looked at Anatole no longer with an angry but with a questioning look.

"I don't know about that, eh?" said Anatole, growing more confident as Pierre mastered his wrath. "I don't know that and don't want to," he said, not looking at Pierre and with a slight tremor of his lower jaw, "but you have used such words to me--'mean' and so on--which as a man of honor I can't allow anyone to use."

Pierre glanced at him with amazement, unable to understand what he wanted.

"Though it was tete-a-tete," Anatole continued, "still I can't..."

"Is it satisfaction you want?" said Pierre ironically.

"You could at least take back your words. What? If you want me to do as you wish, eh?"

"I take them back, I take them back!" said Pierre, "and I ask you to forgive me." Pierre involuntarily glanced at the loose button. "And if you require money for your journey..."

Anatole smiled. The expression of that base and cringing smile, which Pierre knew so well in his wife, revolted him.

"Oh, vile and heartless brood!" he exclaimed, and left the room.

Next day Anatole left for Petersburg.

CHAPTER XXI

Pierre drove to Marya Dmitrievna's to tell her of the fulfillment of her wish that Kuragin should be banished from Moscow. The whole

house was in a state of alarm and commotion. Natasha was very ill, having, as Marya Dmitrievna
told him in secret, poisoned herself the
night after she had been told that Anatole was married, with some arsenic she had stealthily procured. After swallowing a little she had been so frightened that she woke Sonya and told her what she had done. The necessary antidotes had been administered in time and she was now out of danger, though still so weak that it was out of the question to move her to the country, and so the countess had been sent for. Pierre saw the distracted count, and Sonya, who had a tear-stained face, but he could not see Natasha.

Pierre dined at the club that day and heard on all sides gossip about the attempted abduction of Rostova. He resolutely denied these rumors, assuring everyone that nothing had happened except that his brother-in-law had proposed to her and been refused. It seemed to Pierre that it was his duty to conceal the whole affair and re-establish Natasha's reputation.

He was awaiting Prince Andrew's return with dread and went every day to the
old prince's for news of him.

Old Prince Bolkonski heard all the rumors current in the town from Mademoiselle Bourienne and had read the note to Princess Mary in which Natasha had broken off her engagement. He seemed in better spirits than usual and awaited his son with great impatience.

Some days after Anatole's departure Pierre received a note from Prince Andrew, informing him of his arrival and asking him to come to see him.

As soon as he reached Moscow, Prince Andrew had received from his father Natasha's note to Princess Mary breaking off her engagement (Mademoiselle Bourienne had purloined it from Princess Mary and given it to the old prince), and he heard from him the story of Natasha's elopement, with additions.

Prince Andrew had arrived in the evening and Pierre came to see him next morning. Pierre expected to find Prince Andrew in almost the same state as Natasha and was therefore surprised on entering the drawing room to hear him in the study talking in a loud animated voice
about some intrigue going on in Petersburg. The old prince's voice and another now and then interrupted him. Princess Mary came out to meet Pierre. She sighed, looking toward the door of the room where Prince Andrew was, evidently intending to express her sympathy with his sorrow, but Pierre saw by her face that she was glad both

at what had happened and at the way her brother had taken the news of Natasha's faithlessness.

"He says he expected it," she remarked. "I know his pride will not let him express his feelings, but still he has taken it better, far better, than I expected. Evidently it had to be...."

"But is it possible that all is really ended?" asked Pierre.

Princess Mary looked at him with astonishment. She did not understand how he could ask such a question. Pierre went into the study. Prince Andrew, greatly changed and plainly in better health, but with a fresh horizontal wrinkle between his brows, stood in civilian dress facing his father and Prince Meshcherski, warmly disputing and vigorously gesticulating. The conversation was about Speranski--the news of whose sudden exile and alleged treachery had just reached Moscow.

"Now he is censured and accused by all who were enthusiastic about him a month ago," Prince Andrew was saying, "and by those who were unable to understand his aims. To judge a man who is in disfavor and to throw on him all the blame of other men's mistakes is very easy, but I maintain that if anything good has been accomplished in this reign it was done by him, by him alone."

He paused at the sight of Pierre. His face quivered and immediately assumed a vindictive expression.

"Posterity will do him justice," he concluded, and at once turned to Pierre.

"Well, how are you? Still getting stouter?" he said with animation, but the new wrinkle on his forehead deepened. "Yes, I am well," he said in answer to Pierre's question, and smiled.

To Pierre that smile said plainly: "I am well, but my health is now of no use to anyone."

After a few words to Pierre about the awful roads from the Polish frontier, about people he had met in Switzerland who knew Pierre, and about M. Dessalles, whom he had brought from abroad to be his son's tutor, Prince Andrew again joined warmly in the conversation about Speranski which was still going on between the two old men.

"If there were treason, or proofs of secret relations with Napoleon, they would have been made public," he said with warmth and haste. "I

do not, and never did, like Speranski personally, but I like justice!"

Pierre now recognized in his friend a need with which he was only too familiar, to get excited and to have arguments about extraneous matters in order to stifle thoughts that were too oppressive and too intimate. When Prince Meshcherski had left, Prince Andrew took Pierre's arm and asked him into the room that had been assigned him. A bed had been made up there, and some open portmanteaus and trunks stood about. Prince Andrew went to one and took out a small casket, from which he drew a packet wrapped in paper. He did it all silently and very quickly. He stood up and coughed. His face was gloomy and his lips compressed.

"Forgive me for troubling you..."

Pierre saw that Prince Andrew was going to speak of Natasha, and his broad face expressed pity and sympathy. This expression irritated Prince Andrew, and in a determined, ringing, and unpleasant tone he continued:

"I have received a refusal from Countess Rostova and have heard reports of your brother-in-law having sought her hand, or something of that kind. Is that true?"

"Both true and untrue," Pierre began; but Prince Andrew interrupted him.

"Here are her letters and her portrait," said he.

He took the packet from the table and handed it to Pierre.

"Give this to the countess... if you see her."

"She is very ill," said Pierre.

"Then she is here still?" said Prince Andrew. "And Prince Kuragin?" he added quickly.

"He left long ago. She has been at death's door."

"I much regret her illness," said Prince Andrew; and he smiled like his father, coldly, maliciously, and unpleasantly.

"So Monsieur Kuragin has not honored Countess Rostova with his hand?" said Prince Andrew, and he snorted several times.

"He could not marry, for he was married already," said Pierre.

Prince Andrew laughed disagreeably, again reminding one of his father.

"And where is your brother-in-law now, if I may ask?" he said.

"He has gone to Peters... But I don't know," said Pierre.

"Well, it doesn't matter," said Prince Andrew. "Tell Countess Rostova that she was and is perfectly free and that I wish her all that is good."

Pierre took the packet. Prince Andrew, as if trying to remember whether he had something more to say, or waiting to see if Pierre would say anything, looked fixedly at him.

"I say, do you remember our discussion in Petersburg?" asked Pierre, "about..."

"Yes," returned Prince Andrew hastily. "I said that a fallen woman should be forgiven, but I didn't say I could forgive her. I can't."

"But can this be compared...?" said Pierre.

Prince Andrew interrupted him and cried sharply: "Yes, ask her hand again, be magnanimous, and so on?... Yes, that would be very noble, but I am unable to follow in that gentleman's footsteps. If you wish to be my friend never speak to me of that... of all that! Well, good-by. So you'll give her the packet?"

Pierre left the room and went to the old prince and Princess Mary.

The old man seemed livelier than usual. Princess Mary was the same as always, but beneath her sympathy for her brother, Pierre noticed her satisfaction that the engagement had been broken off. Looking at them Pierre realized what contempt and animosity they all felt for the Rostovs, and that it was impossible in their presence even to mention the name of her who could give up Prince Andrew for anyone else.

At dinner the talk turned on the war, the approach of which was becoming evident. Prince Andrew talked incessantly, arguing now with his father, now with the Swiss tutor Dessalles, and showing an unnatural animation, the cause of which Pierre so well understood.

CHAPTER XXII

That same evening Pierre went to the Rostovs' to fulfill the commission entrusted to him. Natasha was in bed, the count at the Club, and Pierre, after giving the letters to Sonya, went to Marya Dmitrievna who was interested to know how Prince Andrew had taken the news. Ten minutes later Sonya came to Marya Dmitrievna.

"Natasha insists on seeing Count Peter Kirilovich," said she.

"But how? Are we to take him up to her? The room there has not been tidied up."

"No, she has dressed and gone into the drawing room," said Sonya.

Marya Dmitrievna only shrugged her shoulders.

"When will her mother come? She has worried me to death! Now mind, don't tell her everything!" said she to Pierre. "One hasn't the heart to scold her, she is so much to be pitied, so much to be pitied."

Natasha was standing in the middle of the drawing room, emaciated, with a pale
set face, but not at all shamefaced as Pierre expected to find her. When he appeared at the door she grew flurried, evidently undecided whether to go to meet him or to wait till he came up.

Pierre hastened to her. He thought she would give him her hand as usual; but she, stepping up to him, stopped, breathing heavily, her arms hanging lifelessly just in the pose she used to stand in when she went to the middle of the ballroom to sing, but with quite a different expression of face.

"Peter Kirilovich," she began rapidly, "Prince Bolkonski was your friend--is your friend," she corrected herself. (It seemed to her that everything that had once been must now be different.) "He told me once to apply to you..."

Pierre sniffed as he looked at her, but did not speak. Till then he had reproached her in his heart and tried to despise her, but he now felt so sorry for her that there was no room in his soul for reproach.

"He is here now: tell him... to for... forgive me!" She stopped and breathed
still more quickly, but did not shed tears.

"Yes... I will tell him," answered Pierre; "but..."

He did not know what to say.

Natasha was evidently dismayed at the thought of what he might think she had meant.

"No, I know all is over," she said hurriedly. "No, that can never be. I'm only tormented by the wrong I have done him. Tell him only that I beg him to forgive, forgive, forgive me for everything...."

She trembled all over and sat down on a chair.

A sense of pity he had never before known overflowed Pierre's heart.

"I will tell him, I will tell him everything once more," said Pierre. "But... I should like to know one thing...."

"Know what?" Natasha's eyes asked.

"I should like to know, did you love..." Pierre did not know how to refer to Anatole and flushed at the thought of him--"did you love that bad man?"

"Don't call him bad!" said Natasha. "But I don't know, don't know at all...."

She began to cry and a still greater sense of pity, tenderness, and love welled
up in Pierre. He felt the tears trickle under his
spectacles and hoped they would not be noticed.

"We won't speak of it any more, my dear," said Pierre, and his gentle, cordial tone suddenly seemed very strange to Natasha.

"We won't speak of it, my dear--I'll tell him everything; but one thing I beg of you, consider me your friend and if you want help, advice, or simply to open your heart to someone--not now, but when your mind is clearer think of me!" He took her hand and kissed it. "I shall be happy if it's in my power..."

Pierre grew confused.

"Don't speak to me like that. I am not worth it!" exclaimed Natasha and turned to leave the room, but Pierre held her hand.

He knew he had something more to say to her. But when he said it he was amazed at his own words.

"Stop, stop! You have your whole life before you," said he to her.

"Before me? No! All is over for me," she replied with shame and self-abasement.

"All over?" he repeated. "If I were not myself, but the handsomest, cleverest,
and best man in the world, and were free, I would this
moment ask on my knees for your hand and your love!"

For the first time for many days Natasha wept tears of gratitude and tenderness, and glancing at Pierre she went out of the room.

Pierre too when she had gone almost ran into the anteroom, restraining tears of tenderness and joy that choked him, and without finding the sleeves of his fur cloak threw it on and got into his sleigh.

"Where to now, your excellency?" asked the coachman.

"Where to?" Pierre asked himself. "Where can I go now? Surely not to the Club or to pay calls?" All men seemed so pitiful, so poor, in comparison with this feeling of tenderness and love he experienced: in comparison with that softened, grateful, last look she had given him through her tears.

"Home!" said Pierre, and despite twenty-two degrees of frost Fahrenheit he threw open the bearskin cloak from his broad chest and inhaled the air with joy.

It was clear and frosty. Above the dirty,
ill-lit streets, above the
black roofs, stretched the dark starry sky. Only looking up at the sky did Pierre cease to feel how sordid and humiliating were all mundane things compared with the heights to which his soul had just been raised. At the entrance to the Arbat Square an immense expanse of dark starry sky presented itself to his eyes. Almost in the center of it, above the Prechistenka Boulevard, surrounded and sprinkled on all sides by stars but distinguished from them all by its nearness to the earth, its white light, and its long uplifted tail, shone the enormous and brilliant comet of 1812--the comet which was said to portend all kinds of woes and the end of the world. In Pierre,

however, that comet with its long luminous tail aroused no feeling of fear. On the contrary he gazed joyfully, his eyes moist with tears, at this bright comet which, having traveled in its orbit with inconceivable velocity through immeasurable space, seemed suddenly- like an arrow piercing the earth--to
remain fixed in a chosen spot,
vigorously holding its tail erect, shining and displaying its white light amid countless other scintillating stars. It seemed to Pierre that this comet fully responded to what was passing in his own softened and uplifted soul, now blossoming into a new life.

BOOK NINE: 1812

CHAPTER I

From the close of the year 1811 intensified arming and concentrating of the forces of Western Europe began, and in 1812 these forces- millions of men, reckoning those transporting and feeding the army- moved from the west eastwards to the Russian frontier, toward which since 1811 Russian forces had been similarly drawn. On the twelfth of June, 1812, the forces of Western Europe crossed the Russian frontier and war began, that is, an event took place opposed to human reason and to human nature. Millions of men perpetrated against one another such innumerable crimes, frauds, treacheries, thefts, forgeries, issues of false money, burglaries, incendiarisms, and murders
as in whole centuries are not recorded in the annals of all the law courts of the world, but which those who committed them did not at the time regard as being crimes.

What produced this extraordinary occurrence? What were its causes? The historians tell us with naive assurance that its causes were the wrongs inflicted on the Duke of Oldenburg, the nonobservance of the Continental System, the ambition of Napoleon, the firmness of Alexander, the mistakes of the diplomatists, and so on.

Consequently, it would only have been necessary for Metternich, Rumyantsev, or Talleyrand, between a levee and an evening party, to have taken proper pains and written a more adroit note, or for

Napoleon to have written to Alexander: "My respected Brother, I consent to restore the duchy to the Duke of Oldenburg"--and there would have been no war.

We can understand that the matter seemed like that to contemporaries. It naturally seemed to Napoleon that the war was caused by England's intrigues (as in fact he said on the island of St. Helena). It naturally seemed to members of the English Parliament that the cause of the war was Napoleon's ambition; to the Duke of Oldenburg, that the cause of the war was the violence done to him; to businessmen that the cause of the way was the Continental System which was ruining Europe; to the generals and old soldiers that the chief reason for the war was the necessity of giving them employment; to the legitimists of that day that it was the need of re-establishing les bons principes, and to the diplomatists of that time that it all resulted from the fact that the alliance between Russia and Austria in 1809 had not been sufficiently well concealed from Napoleon, and from the awkward wording of Memorandum No. 178. It is natural that these and a countless and infinite quantity of other reasons, the number depending on the endless diversity of points of view, presented themselves to the men of that day; but to us, to posterity who view the thing that happened in all its magnitude and perceive its plain and terrible meaning, these causes seem insufficient. To us it is incomprehensible that millions of Christian men killed and tortured each other either because Napoleon was ambitious or Alexander was firm, or because England's policy was astute or the Duke of Oldenburg wronged. We cannot grasp what connection such circumstances have with the actual fact of slaughter and violence: why because the Duke was wronged, thousands of men from the other side of Europe killed and ruined the people of Smolensk and Moscow and were killed by them.

To us, their descendants, who are not historians and are not carried away by the process of research and can therefore regard the event with unclouded common sense, an incalculable number of causes present themselves. The deeper we delve in search of these causes the more of them we find; and each separate cause or whole series of causes appears to us equally valid in itself and equally false by its insignificance compared to the magnitude of the events, and by its impotence--apart from the cooperation of all the other coincident causes--to occasion the event. To us, the wish or objection of this or that French corporal to serve a second term appears as much a cause as Napoleon's refusal to withdraw his troops beyond the Vistula and to restore the duchy of Oldenburg; for had he not wished to serve, and had a second, a third, and a thousandth corporal and private also

refused, there would have been so many less men in Napoleon's army and the war could not have occurred.

Had Napoleon not taken offense at the demand that he should withdraw beyond the Vistula, and not ordered his troops to advance, there would have been no war; but had all his sergeants objected to serving a second term then also there could have been no war. Nor could there have been a war had there been no English intrigues and no Duke of Oldenburg, and had Alexander not felt insulted, and had there not been an
autocratic government in Russia, or a Revolution in France and a subsequent dictatorship and Empire, or all the things that produced the French Revolution, and so on. Without each of these causes nothing could have happened. So all these causes--myriads of causes--coincided to bring it about. And so there was no one cause for that occurrence, but it had to occur because it had to. Millions of men, renouncing their human feelings and reason, had to go from west to east to slay their fellows, just as some centuries previously hordes of men had come from the east to the west, slaying their fellows.

The actions of Napoleon and Alexander, on whose words the event seemed to hang, were as little voluntary as the actions of any soldier who was drawn into the campaign by lot or by conscription. This could not be otherwise, for in order that the will of Napoleon and Alexander (on whom the event seemed to depend) should be carried out, the concurrence of innumerable circumstances was needed without any
one of which the event could not have taken place. It was necessary that millions of men in whose hands lay the real power-the soldiers who fired, or transported provisions and guns--should consent to carry out the will of these weak individuals, and should have been induced to do so by an infinite number of diverse and complex causes.

We are forced to fall back on fatalism as an explanation of irrational events (that is to say, events the reasonableness of which we do not understand). The more we try to explain such events in history reasonably, the more unreasonable and incomprehensible do they become to us.

Each man lives for himself, using his freedom to attain his personal aims, and feels with his whole being that he can now do or abstain from doing this or that action; but as soon as he has done it, that action performed at a certain moment in time becomes irrevocable and belongs to history, in which it has not a free but a predestined significance.

There are two sides

to the life of every man, his individual life,
which is the more free the more abstract its interests, and his
elemental hive life in which he inevitably obeys laws laid down for
him.

Man lives consciously for himself, but is an unconscious
instrument in the attainment of the historic, universal, aims of
humanity. A deed done is irrevocable, and its result coinciding in
time with the actions of millions of other men assumes an historic
significance. The higher a man stands on the social ladder, the more
people he is connected with and the more power he has over others, the
more evident is the predestination and inevitability of his every
action.

"The king's heart is in the hands of the Lord."

A king is history's slave.

History, that is, the unconscious, general, hive life of mankind,
uses every moment of the life of kings as a tool for its own purposes.

Though Napoleon at that time, in 1812, was more convinced than
ever that it depended on him, verser (ou ne pas verser) le sang
de ses
peuples*--as Alexander expressed it in the last letter he wrote him-
he had never been so much in the grip of inevitable laws, which
compelled him, while thinking that he was acting on his own
volition, to perform for the hive life--that is to say, for history-
whatever had to be performed.

*"To shed (or not to shed) the blood of his peoples."

The people of the west moved eastwards to slay their fellow men, and
by the law of coincidence thousands of minute causes fitted in and
co-ordinated to produce that movement and war: reproaches for the
nonobservance of the Continental System, the Duke of Oldenburg's
wrongs, the movement of troops into Prussia--undertaken (as it
seemed to Napoleon) only for the purpose of securing an armed peace,
the French Emperor's love and habit of war coinciding with his
people's inclinations, allurement by the grandeur of the preparations,
and the expenditure on those preparations and the need of obtaining
advantages to compensate for that expenditure,
the intoxicating honors
he received in Dresden, the diplomatic negotiations which, in the
opinion of contemporaries, were carried on with a sincere desire to
attain peace, but which only wounded the self-love of both sides,

and millions of other causes that adapted themselves to the event that was happening or coincided with it.

When an apple has ripened and falls, why does it fall? Because of its attraction to the earth, because its stalk withers, because it is dried by the sun, because it grows heavier, because the wind shakes it, or because the boy standing below wants to eat it?

Nothing is the cause. All this is only the coincidence of conditions in which all vital organic and elemental events occur. And the botanist who finds that the apple falls because the cellular tissue decays and so forth is equally right with the child who stands under the tree and says the apple fell because he wanted to eat it and prayed for it. Equally right or wrong is he who says that Napoleon went to Moscow because he wanted to, and perished because Alexander desired his destruction, and he who says that an undermined hill weighing a million tons fell because the last navvy struck it for the last time with his mattock. In historic events the so-called great men are labels giving names to events, and like labels they have but the smallest connection with the event itself.

Every act of theirs, which appears to them an act of their own will, is in an historical sense involuntary and is related to the whole course of history and predestined from eternity.

CHAPTER II

On the twenty-ninth of May Napoleon left Dresden, where he had spent three weeks surrounded by a court that included princes, dukes, kings, and even an emperor. Before leaving, Napoleon showed favor to the emperor, kings, and princes who had deserved it, reprimanded the kings and princes with whom he was dissatisfied, presented pearls and diamonds of his own--that is, which he had taken from other kings-to the Empress of Austria, and having, as his historian tells us, tenderly embraced the Empress Marie Louise--who regarded him as her husband, though he had left another wife in Paris--left her grieved by the parting which she seemed hardly able to bear. Though the diplomatists still firmly believed in the possibility of peace and worked zealously to that end, and though the Emperor Napoleon himself wrote a letter to Alexander, calling him Monsieur mon frere, and sincerely assured him that he did not want war and would always

love and honor him--yet he set off to join his army, and at every station gave fresh orders to accelerate the movement of his troops from west to east. He went in a traveling coach with six horses, surrounded by pages, aides-de-camp, and an escort, along the road to Posen, Thorn, Danzig, and Konigsberg. At each of these towns thousands of people met him with excitement and enthusiasm.

The army was moving from west to east, and relays of six horses carried him in the same direction. On the tenth of June,* coming up with the army, he spent the night in apartments prepared for him on the estate of a Polish count in the Vilkavisski forest.

*Old style.

Next day, overtaking the army, he went in a carriage to the Niemen, and, changing into a Polish uniform, he drove to the riverbank in order to select a place for the crossing.

Seeing, on the other side, some Cossacks (les Cosaques) and the wide-spreading steppes in the midst of which lay the holy city of Moscow (Moscou, la ville sainte), the capital of a realm such as the Scythia into which Alexander the Great had marched--Napoleon unexpectedly, and contrary alike to strategic and diplomatic considerations, ordered an advance, and the next day his army began to cross the Niemen.

Early in the morning of the twelfth of June he came out of his tent, which was pitched that day on the steep left bank of the Niemen, and looked through a spyglass at the streams of his troops pouring out of the Vilkavisski forest and flowing over the three bridges thrown across the river. The troops, knowing of the Emperor's presence, were on the lookout for him, and when they caught sight of a figure in an overcoat and a cocked hat standing apart from his suite in front of his tent on the hill, they threw up their caps and shouted: "Vive l'Empereur!" and one after another poured in a ceaseless stream out of the vast forest that had concealed them and, separating, flowed on and on by the three bridges to the other side.

"Now we'll go into action. Oh, when he takes it in hand himself, things get hot... by heaven!... There he is!... Vive l'Empereur! So these are the steppes of Asia! It's a nasty country all the same. Au revoir, Beauche; I'll keep the best palace in Moscow for you! Au revoir. Good luck!... Did you see the Emperor? Vive l'Empereur!... preur!--If they make me Governor of India, Gerard, I'll make you

Minister of Kashmir--that's settled. Vive l'Empereur! Hurrah! hurrah! hurrah! The Cossacks--those rascals--see how they run! Vive l'Empereur! There he is, do you see him? I've seen him twice, as I see you now. The little corporal... I saw him give the cross to one of the veterans.... Vive l'Empereur!" came the voices of men, old and young, of most diverse characters and social positions. On the faces of all was one common expression of joy at the commencement of the long-expected campaign and of rapture and devotion to the man in the gray coat who was standing on the hill.

On the thirteenth of June a rather small, thoroughbred Arab horse was brought to Napoleon. He mounted it and rode at a gallop to one of the bridges over the Niemen, deafened continually by incessant and rapturous acclamations which he evidently endured only because it was impossible to forbid the soldiers to express their love of him by such shouting, but the shouting which accompanied him everywhere disturbed him and distracted him from the military cares that had occupied him from the time he joined the army. He rode across one of the swaying pontoon bridges to the farther side, turned sharply to the left, and galloped in the direction of Kovno, preceded by enraptured, mounted chasseurs of the Guard who, breathless with delight, galloped ahead to clear a path for him through the troops. On reaching the broad river Viliya, he stopped near a regiment of Polish Uhlans stationed by the river.

"Vivat!" shouted the Poles, ecstatically, breaking their ranks and pressing against one another to see him.

Napoleon looked up and down the river, dismounted, and sat down on a log that lay on the bank. At a mute sign from him, a telescope was handed him which he rested on the back of a happy page who had run up to him, and he gazed at the opposite bank. Then he became absorbed in a map laid out on the logs. Without lifting his head he said something, and two of his aides-de-camp galloped off to the Polish Uhlans.

"What? What did he say?" was heard in the ranks of the Polish Uhlans when one of the aides-de-camp rode up to them.

The order was to find a ford and to cross the river. The colonel of the Polish Uhlans, a handsome old man, flushed and, fumbling in his speech from excitement, asked the aide-de-camp whether he would be permitted to swim the river with his Uhlans instead of seeking a ford. In evident fear of refusal, like a boy asking for permission to get on a horse, he begged to be allowed to swim across the river before the

Emperor's eyes. The aide-de-camp replied that probably the Emperor would not be displeased at this excess of zeal.

As soon as the aide-de-camp had said this, the old mustached officer, with happy face and sparkling eyes, raised his saber, shouted "Vivat!" and, commanding the Uhlans to follow him, spurred his horse and galloped into the river. He gave an angry thrust to his horse, which had grown restive under him, and plunged into the water, heading for the deepest part where the current was swift. Hundreds of Uhlans galloped in after him. It was cold and uncanny in the rapid current in the middle of the stream, and the Uhlans caught hold of one another as they fell off their horses. Some of the horses were drowned and some of the men; the others tried to swim on, some in the saddle and some clinging to their horses' manes. They tried to make their way forward to the opposite bank and, though there was a ford one third of a mile away, were proud that they were swimming and drowning in this river under the eyes of the man who sat on the log and was not even looking at what they were doing. When the aide-de-camp, having returned and choosing an opportune moment, ventured to draw the Emperor's attention to the devotion of the Poles to his person, the little man in the gray overcoat got up and, having summoned Berthier, began pacing up and down the bank with him, giving him instructions and occasionally glancing disapprovingly at the drowning Uhlans who distracted his attention.

For him it was no new conviction that his presence in any part of the world, from Africa to the steppes of Muscovy alike, was enough to dumfound people and impel them to insane self-oblivion. He called for his horse and rode to his quarters.

Some forty Uhlans were drowned in the river, though boats were sent to their assistance. The majority struggled back to the bank from which they had started. The colonel and some of his men got across and with difficulty clambered out on the further bank. And as soon as they had got out, in their soaked and streaming clothes, they shouted "Vivat!" and looked ecstatically at the spot where Napoleon had been but where he no longer was and at that moment considered themselves happy.

That evening, between issuing one order that the forged Russian paper money prepared for use in Russia should be delivered as quickly as possible and another that a Saxon should be shot, on whom a letter containing information about the orders to the French army had been found, Napoleon also gave instructions that the Polish colonel

who had needlessly plunged into the river should be enrolled in the Legion d'honneur of which Napoleon was himself the head.

Quos vult perdere dementat.*

*Those whom (God) wishes to destroy he drives mad.

CHAPTER III

The Emperor of Russia had, meanwhile, been in Vilna for more than a month, reviewing troops and holding maneuvers. Nothing was ready for the war that everyone expected and to prepare for which the Emperor had come from Petersburg. There was no general plan of action. The vacillation between the various plans that were proposed had even increased after the Emperor had been at headquarters for a month. Each of the three armies had its own commander in chief, but there was no supreme commander of all the forces, and the Emperor did not assume that responsibility himself.

The longer the Emperor remained in Vilna the less did everybody-tired of waiting--prepare for the war. All the efforts of those who surrounded the sovereign seemed directed merely to making him spend his time pleasantly and forget that war was impending.

In June, after many balls and fetes given by the Polish magnates, by the courtiers, and by the Emperor himself, it occurred to one of the Polish aides-de-camp in attendance that a dinner and ball should be given for the Emperor by his aides-de-camp. This idea was eagerly received. The Emperor gave his consent. The aides-de-camp collected money by subscription. The lady who was thought to be most pleasing to the Emperor was invited to act as hostess. Count Bennigsen, being a landowner in the Vilna province, offered his country house for the fete, and the thirteenth of June was fixed for a ball, dinner, regatta, and fireworks at Zakret, Count Bennigsen's country seat.

The very day that Napoleon issued the order to cross the Niemen, and his vanguard, driving off the Cossacks, crossed the Russian frontier, Alexander spent the evening at the entertainment given by his aides-de-camp at Bennigsen's country house.

It was a gay and brilliant fete. Connoisseurs of such matters declared that rarely had so many beautiful women been assembled in one place. Countess Bezukhova was present among other Russian ladies who had followed the sovereign from Petersburg to Vilna and eclipsed the refined Polish ladies by her massive, so called Russian type of beauty. The Emperor noticed her and honored her with a dance.

Boris Drubetskoy, having left his wife in Moscow and being for the present en garcon (as he phrased it), was also there and, though not an aide-de-camp, had subscribed a large sum toward the expenses. Boris was now a rich man who had risen to high honors and no longer sought patronage but stood on an equal footing with the highest of those of his own age. He was meeting Helene in Vilna after not having seen her for a long time and did not recall the past, but as Helene was enjoying the favors of a very important personage and Boris had only recently married, they met as good friends of long standing.

At midnight dancing was still going on. Helene, not having a suitable partner, herself offered to dance the mazurka with Boris. They were the third couple. Boris, coolly looking at Helene's dazzling bare shoulders which emerged from a dark, gold-embroidered, gauze gown, talked to her of old acquaintances and at the same time, unaware of it himself and unnoticed by others, never for an instant ceased to observe the Emperor who was in the same room. The Emperor was not dancing, he stood in the doorway, stopping now one pair and now another with gracious words which he alone knew how to utter.

As the mazurka began, Boris saw that Adjutant General Balashev, one of those in closest attendance on the Emperor, went up to him and contrary to court etiquette stood near him while he was talking to a Polish lady. Having finished speaking to her, the Emperor looked inquiringly at Balashev and, evidently understanding that he only acted thus because there were important reasons for so doing, nodded slightly to the lady and turned to him. Hardly had Balashev begun to speak before a look of amazement appeared on the Emperor's face. He took Balashev by the arm and crossed the room with him, unconsciously clearing a path seven yards wide as the people on both sides made way for him. Boris noticed Arakcheev's excited face when the sovereign went out with Balashev. Arakcheev looked at the Emperor from under his brow and, sniffing with his red nose, stepped forward from the crowd as if expecting the Emperor to address him. (Boris understood that Arakcheev envied Balashev and was displeased that evidently important news had reached the Emperor otherwise than through himself.)

But the Emperor and Balashev passed out into the illuminated garden without noticing Arakcheev who, holding his sword and glancing wrathfully around, followed some twenty paces behind them.

All the time Boris was going through the figures of the mazurka, he was worried by the question of what news Balashev had brought and how he could find it out before others. In the figure in which he had to choose two ladies, he whispered to Helene that he meant to choose Countess Potocka who, he thought, had gone out onto the veranda, and glided over the parquet to the door opening into the garden, where, seeing Balashev and the Emperor returning to the veranda, he stood still. They were moving toward the door. Boris, fluttering as if he had not had time to withdraw, respectfully pressed close to the doorpost with bowed head.

The Emperor, with the agitation of one who has been personally affronted, was finishing with these words:

"To enter Russia without declaring war! I will not make peace as long as a single armed enemy remains in my country!" It seemed to Boris that it gave the Emperor pleasure to utter these words. He was satisfied with the form in which he had expressed his thoughts, but displeased that Boris had overheard it.

"Let no one know of it!" the Emperor added with a frown.

Boris understood that this was meant for him and, closing his eyes, slightly bowed his head. The Emperor re-entered the ballroom and remained there about another half-hour.

Boris was thus the first to learn the news that the French army had crossed the Niemen and, thanks to this, was able to show certain important personages that much that was concealed from others was usually known to him, and by this means he rose higher in their estimation.

The unexpected news of the French having crossed the Niemen was particularly startling after a month of unfulfilled expectations, and at a ball. On first receiving the news, under the influence of indignation and resentment the Emperor had found a phrase that pleased him, fully expressed his feelings, and has since become famous. On returning home at two o'clock that night he sent for his secretary, Shishkov, and told him to write an order to the troops and a rescript to Field Marshal Prince Saltykov, in which he insisted on the words being inserted that

he would not make peace so long as a
single armed Frenchman remained on Russian soil.

Next day the following letter was sent to Napoleon:

Monsieur mon frere,

Yesterday I learned that, despite the loyalty which I have kept my engagements with Your Majesty, your troops have crossed the Russian frontier, and I have this moment received from Petersburg a note, in which Count Lauriston informs me, as a reason for this aggression, that Your Majesty has considered yourself to be in a state of war with me from the time Prince Kuragin asked for his passports. The reasons on which the Duc de Bassano based his refusal to deliver them to him would never have led me to suppose that that could serve as a pretext for aggression. In fact, the ambassador, as he himself has declared, was never authorized to make that demand, and as soon as I was informed of it I let him know how much I disapproved of it and ordered him to remain at his post. If Your Majesty does not intend to shed the blood of our
peoples for such a misunderstanding, and
consents to withdraw your troops from Russian territory, I will regard what has passed as not having occurred and an understanding between us will be possible. In the contrary case, Your Majesty, I shall see myself forced to repel an attack that nothing on my part has provoked. It still depends on Your Majesty to preserve humanity from the calamity of another war. I am, etc.,

(signed) Alexander

CHAPTER IV

At two in the morning of the fourteenth of June, the Emperor, having sent for Balashev and read him his letter to Napoleon, ordered him to take it and hand it personally to the French Emperor. When dispatching Balashev, the Emperor repeated to him the words that he would not make peace so long as a single armed enemy remained on Russian soil and told him to transmit those words to Napoleon. Alexander did not insert them in his letter to Napoleon, because with his characteristic tact he felt it would
be injudicious to use
them at a moment when a last attempt at reconciliation was being made, but he definitely instructed Balashev to repeat them personally to

Napoleon.

Having set off in the small hours of the fourteenth, accompanied by a bugler and two Cossacks, Balashev reached the French outposts at the village of Rykonty, on the Russian side of the Niemen, by dawn. There he was stopped by French cavalry sentinels.

A French noncommissioned officer of hussars, in crimson uniform and a shaggy cap, shouted to the approaching Balashev to halt. Balashev did not do so at once, but continued to advance along the road at a walking pace.

The noncommissioned officer frowned and, muttering words of abuse, advanced his horse's chest against Balashev, put his hand to his saber, and shouted rudely at the Russian general, asking: was he deaf that he did not do as he was told? Balashev mentioned who he was. The noncommissioned officer began talking with his comrades about regimental matters
without looking at the Russian general.

After living at the seat of the highest authority and power, after conversing with the Emperor less than three hours before, and in general being accustomed to the respect due to his rank in the service, Balashev found it very strange here on Russian soil to encounter this hostile, and still more this disrespectful, application of brute force to himself.

The sun was only just appearing from behind the clouds, the air was fresh and dewy. A herd of cattle was being driven along the road from the village, and over the fields the larks rose trilling, one after another, like bubbles rising in water.

Balashev looked around him, awaiting the arrival of an officer from the village. The Russian Cossacks and bugler and the French hussars looked silently at one another from time to time.

A French colonel of hussars, who had evidently just left his bed, came riding from the village on a handsome sleek gray horse, accompanied by two hussars. The officer,
the soldiers, and their
horses all looked smart and well kept.

It was that first period of a campaign when troops are still in full trim, almost like that of peacetime maneuvers, but with a shade of martial swagger in their clothes, and a touch of the gaiety and spirit of enterprise which always accompany the opening of a campaign.

The French colonel with difficulty repressed a yawn, but was

polite and evidently understood Balashev's importance. He led him past his soldiers and behind the outposts and told him that his wish to be presented to the Emperor would most likely be satisfied immediately, as the Emperor's quarters were, he believed, not far off.

They rode through the village of Rykonty, past tethered French hussar horses, past sentinels and men who saluted their colonel and stared with curiosity at a Russian uniform, and came out at the other end of the village. The colonel said that the commander of the division was a mile and a quarter away and would receive Balashev and
conduct him to his destination.

The sun had by now risen and shone gaily on the bright verdure.

They had hardly ridden up a hill, past a tavern, before they saw a group of horsemen coming toward them. In front of the group, on a black horse with trappings that glittered in the sun, rode a tall man with plumes in his hat and black hair curling down to his shoulders. He wore a red mantle, and stretched his long legs forward in French fashion. This man rode toward Balashev at a gallop, his plumes flowing and his gems and gold lace glittering in the bright June sunshine.

Balashev was only two horses' length from the equestrian with the bracelets, plunies, necklaces, and gold embroidery, who was galloping toward him with a theatrically solemn countenance, when Julner, the French colonel, whispered respectfully: "The King of Naples!" It was, in fact, Murat, now called "King of Naples." Though it was quite incomprehensible why he should be King of Naples, he was called so, and was himself
convinced that he was so, and therefore
assumed a more solemn and important air than formerly. He was so sure that he really was the King of Naples that when, on the eve of his departure from that city, while walking through the streets with his wife, some Italians called out to him: "Viva il re!"* he turned to his wife with a pensive smile and said: "Poor fellows, they don't know that I am leaving them tomorrow!"

*"Long live the king."

But though he firmly believed himself to be King of Naples and pitied the grief felt by the subjects he was abandoning, latterly, after he had been ordered to return to military service--and especially since his last interview with Napoleon in Danzig, when his august brother-in-law had told him: "I made you King that you

should reign in my way, but not in yours!"--he had cheerfully taken up his familiar business, and--like a well-fed but not overfat horse that feels himself in harness and grows skittish between the shafts--he dressed up in clothes as variegated and expensive as possible, and gaily and contentedly galloped along the roads of Poland, without himself knowing why or whither.

On seeing the Russian general he threw back his head, with its long hair curling to his shoulders, in a majestically royal manner, and looked inquiringly at the French colonel. The colonel respectfully informed His Majesty of Balashev's mission, whose name he could not pronounce.

"De Bal-macheve!" said the King (overcoming by his assurance the difficulty that had presented itself to the colonel). "Charmed to make your acquaintance, General!" he added, with a gesture of kingly condescension.

As soon as the King began to speak loud and fast his royal dignity instantly forsook him, and without noticing it he passed into his natural tone of good-natured familiarity. He laid his hand on the withers of Balashev's horse and said:

"Well, General, it all looks like war," as if regretting a circumstance of which he was unable to judge.

"Your Majesty," replied Balashev, "my master, the Emperor, does not desire war and as Your Majesty sees..." said Balashev, using the words Your Majesty at every opportunity, with the affectation unavoidable in frequently addressing one to whom the title was still a novelty.

Murat's face beamed with stupid satisfaction as he listened to "Monsieur de Bal-macheve." But royaute oblige!* and he felt it incumbent on him, as a king and an ally, to confer on state affairs with Alexander's envoy. He dismounted, took Balashev's arm, and moving a few steps away from his suite, which waited respectfully, began to pace up and down with him, trying to speak significantly. He referred to the fact that the Emperor Napoleon had resented the demand that he should withdraw his troops from Prussia, especially when that demand became generally known and the dignity of France was thereby offended.

*"Royalty has its obligations."

Balashev replied that there was "nothing offensive in the demand, because..." but Murat
interrupted him.

"Then you don't consider the Emperor Alexander the aggressor?" he asked unexpectedly, with a kindly and foolish smile.

Balashev told him why he considered Napoleon to be the originator of the war.

"Oh, my dear general!" Murat again interrupted him, "with all my heart I wish the Emperors may arrange the affair between them, and that the war begun by no wish of mine may finish as quickly as possible!" said he, in the tone of a servant who wants to remain good friends with another despite a quarrel between their masters.

And he went on to inquiries about the Grand Duke and the state of his health, and to reminiscences of the gay and amusing times he had spent with him in Naples. Then suddenly, as if remembering his royal dignity, Murat solemnly drew himself up, assumed the pose in which he had stood at his coronation, and, waving his right arm, said:

"I won't detain you longer, General. I wish success to your mission," and with his embroidered red mantle, his flowing
feathers,
and his glittering ornaments, he rejoined his suite who were respectfully awaiting him.

Balashev rode on, supposing from Murat's words that he would very soon be brought before Napoleon himself. But instead of that, at the next village the sentinels of Davout's infantry corps detained him as the pickets of the vanguard had done, and an adjutant of the corps commander, who was fetched, conducted him into the village to Marshal Davout.

CHAPTER V

Davout was to Napoleon what Arakcheev was to Alexander--though not a coward like Arakcheev, he was as precise, as cruel, and as unable to express his devotion to his monarch except by cruelty.

In the organism of states such men are necessary, as wolves are

necessary in the organism of nature, and they always exist, always appear and hold their own, however incongruous their presence and their proximity to the head of the government may be. This inevitability alone can explain how the cruel Arakcheev, who tore out a grenadier's
mustache with his own hands, whose weak nerves rendered him unable to face danger, and who was neither an educated man nor a courtier, was able to maintain his powerful position with Alexander, whose own character was chivalrous, noble, and gentle.

Balashev found Davout seated on a barrel in the shed of a peasant's hut, writing--he was auditing accounts. Better quarters could have been found him, but Marshal Davout was one of those men who purposely put themselves in most depressing conditions to have a justification for being gloomy. For the same reason they are always hard at work and in a hurry. "How can I think of the bright side of life when, as you see, I am sitting on a barrel and working in a dirty shed?" the expression of his face seemed to say. The chief pleasure and necessity of such men, when they encounter anyone who shows animation, is to flaunt their own dreary, persistent activity.
Davout allowed himself that pleasure when Balashev was brought in. He became still more
absorbed in his task when the Russian general entered, and after glancing over his spectacles at Balashev's face, which was animated by the beauty of the morning and by his talk with Murat, he did not rise or even stir, but scowled still more and sneered malevolently.

When he noticed in Balashev's face the disagreeable impression this reception produced, Davout raised his head and coldly asked what he wanted.

Thinking he could have been received in such a manner only because Davout did not know that he was adjutant general to the Emperor Alexander and even his envoy to Napoleon, Balashev hastened to inform him of his rank and mission. Contrary to his expectation, Davout, after hearing him, became still surlier and ruder.

"Where is your dispatch?" he inquired. "Give it to me. I will send it to the Emperor."

Balashev replied that he had been ordered to hand it personally to the Emperor.

"Your Emperor's orders are obeyed in your army, but here," said Davout, "you must do as you're told."

And,

as if to make the Russian general still more conscious of his dependence on brute force, Davout sent an adjutant to call the officer on duty.

Balashev took out the packet containing the Emperor's letter and laid it on the table (made of a door with its hinges still hanging on it, laid across two barrels). Davout took the packet and read the inscription.

"You are perfectly at liberty to treat me with respect or not," protested Balashev, "but permit me to observe that I have the honor to be adjutant general to His Majesty...."

Davout glanced at him silently and plainly derived pleasure from the signs of agitation and confusion which appeared on Balashev's face.

"You will be treated as is fitting," said he and, putting the packet in his pocket, left the shed.

A minute later the marshal's adjutant, de Castres, came in and conducted Balashev to the quarters assigned him.

That day he dined with the marshal, at the same board on the barrels.

Next day Davout rode out early and, after asking Balashev to come to him, peremptorily requested him to remain there, to move on with the baggage train should orders come for it to move, and to talk to no one except Monsieur de Castres.

After four days of solitude, ennui, and consciousness of his impotence and insignificance--particularly acute by contrast with the sphere of power in which he had so lately moved--and after several marches with the marshal's baggage and the French army, which occupied the whole district, Balashev was brought to Vilna--now occupied by the French--through the very gate by which he had left it four days previously.

Next day the imperial gentleman-in-waiting, the Comte de Turenne, came to Balashev and informed him of the Emperor Napoleon's wish to honor him with an audience.

Four days before, sentinels of the Preobrazhensk regiment had stood in front of the house to which Balashev was conducted, and now two French grenadiers stood there in blue uniforms unfastened in front and with shaggy

caps on their heads, and an escort of hussars and
Uhlans and a brilliant suite of aides-de-camp, pages, and generals,
who were waiting for Napoleon to come out, were standing at the porch,
round his saddle horse and his Mameluke, Rustan. Napoleon received
Balashev in the very house in Vilna from which Alexander had
dispatched him on his mission.

CHAPTER VI

Though Balashev was used to imperial pomp, he was amazed at the
luxury and magnificence of Napoleon's court.

The Comte de Turenne showed him into a big reception room where many
generals, gentlemen-in-waiting, and Polish magnates--several of whom
Balashev had seen at the court of the Emperor of Russia--were waiting.
Duroc said that Napoleon would receive the Russian general before
going for his ride.

After some minutes, the gentleman-in-waiting who was on duty came
into the great reception room and, bowing politely, asked Balashev
to follow him.

Balashev went into a small reception room, one door of which led
into a study,
the very one from which the Russian Emperor had
dispatched him on his mission. He stood a minute or two, waiting. He
heard hurried footsteps beyond the door, both halves of it were opened
rapidly; all was silent and then from the study the sound was heard of
other steps, firm and resolute--they were those of Napoleon. He had
just finished dressing for his ride, and wore a blue uniform,
opening in front over a white waistcoat so long that it covered his
rotund stomach, white leather breeches tightly fitting the fat
thighs of his short legs, and Hessian boots. His short hair had
evidently just been brushed, but one lock hung down in the middle of
his broad forehead. His plump white neck stood out sharply above the
black collar of his uniform, and he smelled of Eau de Cologne. His
full face, rather young-looking, with its prominent chin, wore a
gracious and majestic expression of imperial welcome.

He entered briskly, with a jerk at every step and his head
slightly thrown back. His whole
short corpulent figure with broad
thick shoulders, and chest and stomach involuntarily protruding, had

that imposing and stately appearance one sees in men of forty who live in comfort. It was evident, too, that he was in the best of spirits that day.

He nodded in answer to Balashav's low and respectful bow, and coming up to him at once began speaking like a man who values every moment of his time and does not condescend to prepare what he has to say but is sure he will always say the right thing and say it well.

"Good day, General!" said he. "I have received the letter you brought from the Emperor Alexander and am very glad to see you." He glanced with his large eyes into Balashav's face and immediately looked past him.

It was plain that Balashev's personality did not interest him at all. Evidently only what took place within his own mind interested him. Nothing outside himself had any significance for him, because everything in the world, it seemed to him, depended entirely on his will.

"I do not, and did not, desire war," he continued, "but it has been forced on me. Even now" (he emphasized the word) "I am ready to receive any explanations you can give me."

And he began clearly and concisely to explain his reasons for dissatisfaction with the Russian government. Judging by the calmly moderate and amicable tone in which the French Emperor spoke, Balashev was firmly persuaded that he wished for peace and intended to enter into negotiations.

When Napoleon, having finished speaking, looked inquiringly at the Russian envoy, Balashev began a speech he had prepared long before: "Sire! The Emperor, my master..." but the sight of the Emperor's eyes bent on him confused him. "You are flurried--compose yourself!" Napoleon seemed to say, as with a scarcely perceptible smile he looked at Balashev's uniform and sword.

Balashev recovered himself and began to speak. He said that the Emperor Alexander did not consider Kurakin's demand for his passports a sufficient cause for war; that Kurakin had acted on his own initiative and without his sovereign's assent, that the Emperor Alexander did not desire war, and had no relations with England.

"Not yet!" interposed Napoleon, and, as if fearing to give vent to his feelings, he frowned and nodded slightly as a sign that Balashev might proceed.

After saying all he had been instructed to say, Balashev added that the Emperor Alexander wished for peace, but would not enter into negotiations except on condition that... Here Balashev hesitated: he remembered the words the Emperor Alexander had not written in his letter, but had specially inserted in the rescript to Saltykov and had told Balashev to repeat to Napoleon. Balashev remembered these words, "So long as a single armed foe remains on Russian soil," but some complex feeling restrained him. He could not utter them, though he wished to do so. He grew confused and said: "On condition that the French army retires beyond the Niemen."

Napoleon noticed Balashev's embarrassment when uttering these last words; his face twitched and the calf of his left leg began to quiver rhythmically. Without moving from where he stood he began speaking in a louder tone and more hurriedly than before. During the speech that followed, Balashev, who more than once lowered his eyes, involuntarily noticed the quivering of Napoleon's left leg which increased the more Napoleon raised his voice.

"I desire peace, no less than the Emperor Alexander," he began. "Have I not for eighteen months been doing everything to obtain it? I have waited eighteen months for explanations. But in order to begin negotiations, what is demanded of me?" he said, frowning and making an energetic gesture of inquiry with his small white plump hand.

"The withdrawal of your army beyond the Niemen, sire," replied Balashev.

"The Niemen?" repeated Napoleon. "So now you want me to retire beyond the Niemen--only the Niemen?" repeated Napoleon, looking straight at Balashev.

The latter bowed his head respectfully.

Instead of the demand of four months earlier to withdraw from Pomerania, only a withdrawal beyond the Niemen was now demanded. Napoleon turned quickly and began to pace the room.

"You say the demand now is that I am to withdraw beyond the Niemen before commencing negotiations, but in just the same way two months ago the demand was that I should withdraw beyond the Vistula and the Oder, and yet you are willing to negotiate."

He went in silence from one corner of the room to the other and

again stopped in front of Balashev. Balashev noticed that his left leg was quivering faster than before and his face seemed petrified in its stern expression. This quivering of his left leg was a thing Napoleon was conscious of. "The vibration of my left calf is a great sign with me," he remarked at a later date.

"Such demands as to retreat beyond the Vistula and Oder may be made to a Prince of Baden, but not to me!" Napoleon almost screamed, quite to his own surprise. "If you gave me Petersburg and Moscow I could not accept such conditions. You say I have begun this war! But who first joined his army? The Emperor Alexander, not I! And you offer me negotiations when I have expended millions, when you are in alliance with England, and when your position is a bad one. You offer me negotiations! But what is the aim of your alliance with England? What has she given you?" he continued hurriedly, evidently no longer trying to show the advantages of peace and discuss its possibility, but only to prove his own rectitude and power and Alexander's errors and duplicity.

The commencement of his speech had obviously been made with the intention of demonstrating the advantages of his position and showing that he was nevertheless willing to negotiate. But he had begun talking, and the more he talked the less could he control his words.

The whole purport of his remarks now was evidently to exalt himself and insult Alexander--just what he had least desired at the commencement of the interview.

"I hear you have made peace with Turkey?"

Balashev bowed his head affirmatively.

"Peace has been concluded..." he began.

But Napoleon did not let him speak. He evidently wanted to do all the talking himself, and continued to talk with the sort of eloquence and unrestrained irritability to which spoiled people are so prone.

"Yes, I know you have made peace with the Turks without obtaining Moldavia and Wallachia; I would have given your sovereign those provinces as I gave him Finland. Yes," he went on, "I promised and would have given the Emperor Alexander Moldavia and Wallachia, and now he won't have those splendid provinces. Yet he might have united them to his empire and in a single reign would have extended Russia

from the Gulf of Bothnia to the mouths of the Danube. Catherine the Great could not have done more," said Napoleon, growing more and more excited as he paced up and down the room, repeating to Balashev almost the very words he had used to Alexander himself at Tilsit. "All that, he would have owed to my friendship. Oh, what a splendid reign!" he repeated several times, then paused, drew from his pocket a gold snuffbox, lifted it to his nose, and greedily sniffed at it.

"What a splendid reign the Emperor Alexander's might have been!"

He looked compassionately at Balashev, and as soon as the latter tried to make some rejoinder hastily interrupted him.

"What could he wish or look for that he would not have obtained through my friendship?" demanded Napoleon, shrugging his shoulders in perplexity. "But no, he has preferred to surround himself with my enemies, and with whom? With Steins, Armfeldts, Bennigsens, and Wintzingerodes! Stein, a traitor expelled from his own country; Armfeldt, a rake and an intriguer; Wintzingerode, a fugitive French subject; Bennigsen, rather more of a soldier than the others, but all the same an incompetent who was unable to do anything in 1807 and who should awaken terrible memories in the Emperor Alexander's mind....
Granted that were they competent they might be made use of," continued Napoleon--hardly able to keep pace in words with the rush of thoughts that incessantly sprang up, proving how right and strong he was (in his perception the two were one and the same)- "but they are not even that! They are neither fit for war nor peace! Barclay is said to be the most capable of them all, but I cannot say so, judging by his first movements. And what are they doing, all these courtiers? Pfuel proposes, Armfeldt disputes, Bennigsen considers, and Barclay, called on to act, does not know what to decide on, and time passes bringing no result. Bagration alone is a military man. He's stupid, but he has experience, a quick eye, and resolution.... And what role is your young monarch playing in that monstrous crowd? They compromise him and throw on him the responsibility for all that happens. A sovereign should not be with the army unless he is a general!" said Napoleon, evidently uttering these words as a direct challenge to the Emperor. He knew how Alexander desired to be a military commander.

"The campaign began only a week ago, and you haven't even been able to defend Vilna. You are cut in two and have been driven out of the Polish provinces. Your army is grumbling."

"On the contrary, Your Majesty," said Balashev, hardly able to

remember what had been said to him and following these verbal fireworks with difficulty, "the troops are burning with eagerness..."

"I know everything!" Napoleon interrupted him. "I know everything. I know the number of your battalions as exactly as I know my own. You have not two hundred thousand men, and I have three times that number. I give you my word of honor," said Napoleon, forgetting that his word of honor could carry no weight--"I give you my word of honor that I have five hundred and thirty thousand men this side of the Vistula. The Turks will be of no use to you; they are worth nothing and have shown it by making peace with you. As for the Swedes--it is their fate to be governed by mad kings. Their king was insane and they changed him for another--Bernadotte, who promptly went mad--for no Swede would ally himself with Russia unless he were mad."

Napoleon grinned maliciously and again raised his snuffbox to his nose.

Balashev knew how to reply to each of Napoleon's remarks, and would have done so; he continually made the gesture of a man wishing to say something, but Napoleon always interrupted him. To the alleged insanity of the Swedes, Balashev wished to reply that when Russia is on her side Sweden is practically an island: but Napoleon gave an angry exclamation to drown his voice. Napoleon was in that state of irritability in which a man has to talk, talk, and talk, merely to convince himself that he is in the right. Balashev began to feel uncomfortable: as envoy he feared to demean his dignity and felt the necessity of replying; but, as a man, he shrank before the transport of groundless wrath that had evidently seized Napoleon. He knew that none of the words now uttered by Napoleon had any significance, and that Napoleon himself would be ashamed of them when he came to his senses. Balashev stood with downcast eyes, looking at the movements of Napoleon's stout legs and trying to avoid meeting his eyes.

"But what do I care about your allies?" said Napoleon. "I have allies--the Poles. There are eighty thousand of them and they fight like lions. And there will be two hundred thousand of them."

And probably still more perturbed by the fact that he had uttered this obvious falsehood, and that Balashev still stood silently before him in the same attitude of submission to fate, Napoleon abruptly turned round, drew close to Balashev's face, and, gesticulating rapidly and energetically with his white hands, almost shouted:

"Know that if you stir up Prussia against me, I'll wipe it off the map of Europe!" he declared, his face pale and distorted by anger, and he struck one of his small hands
energetically with the other. "Yes, I
will throw you back beyond the Dvina and beyond the Dnieper, and will re-erect against you that barrier which it was criminal and blind of Europe to allow to be destroyed. Yes, that is what will happen to you. That is what you have gained by alienating me!" And he walked silently several times up and down the room, his fat shoulders twitching.

He put his snuffbox into his waistcoat pocket, took it out again, lifted it several times to his nose, and stopped in front of Balashev. He paused, looked ironically straight into Balashev's eyes, and said in a quiet voice:

"And yet what a splendid reign your master might have had!"

Balashev, feeling it incumbent on him to reply, said that from the Russian side things did not appear in so gloomy a light. Napoleon was silent, still looking derisively at him and evidently not listening to him. Balashev said that in Russia the best results were expected from the war. Napoleon nodded condescendingly, as if to say,
"I know it's your duty to say that, but you don't believe it
yourself. I have convinced you."

When Balashev had ended, Napoleon again took out his snuffbox, sniffed at it, and stamped his foot twice on the floor as a signal. The door opened, a gentleman-in-waiting, bending respectfully, handed the Emperor his hat and gloves; another brought him a pocket handkerchief. Napoleon, without giving them a glance, turned to Balashev:

"Assure the Emperor Alexander from me," said he, taking his hat, "that I am as devoted to him as before: I know him thoroughly and very highly esteem his lofty qualities. I will detain you no longer, General; you shall receive my letter to the Emperor."

And Napoleon went quickly to the door. Everyone in the reception room rushed forward and descended the staircase.

CHAPTER VII

After all that Napoleon had said to him--those bursts of anger and the last dryly spoken words: "I will detain you no longer, General; you shall receive my letter," Balashev felt convinced that Napoleon would not wish to see him, and would even avoid another meeting with him--an insulted envoy--especially as he had witnessed his unseemly anger. But, to his surprise, Balashev received, through Duroc, an invitation to dine with the Emperor that day.

Bessieres, Caulaincourt, and Berthier were present at that dinner.

Napoleon met Balashev cheerfully and amiably. He not only showed no sign of constraint or self-reproach on account of his outburst that morning, but, on the contrary, tried to reassure Balashev. It was evident that he had long been convinced that it was impossible for him to make a mistake, and that in his perception whatever he did was right, not because it harmonized with any idea of right and wrong, but because he did it.

The Emperor was in very good spirits after his ride through Vilna, where crowds of people had rapturously greeted and followed him. From all the windows of the streets through which he rode, rugs, flags, and his monogram were displayed, and the Polish ladies, welcoming him, waved their handkerchiefs to him.

At dinner, having placed Balashev beside him, Napoleon not only treated him amiably but behaved as if Balashev were one of his own courtiers, one of those who sympathized with his plans and ought to rejoice at his success. In the course of conversation he mentioned Moscow and questioned Balashev about the Russian capital, not merely as an interested traveler asks about a new city he intends to visit, but as if convinced that Balashev, as a Russian, must be flattered by his curiosity.

"How many inhabitants are there in Moscow? How many houses? Is it true that Moscow is called 'Holy Moscow'? How many churches are there in Moscow?" he asked.

And receiving the reply that there were more than two hundred churches, he remarked:

"Why such a quantity of churches?"

"The Russians are very devout," replied Balashev.

"But a large number of monasteries and churches is always a sign

of the backwardness of a people,"
said Napoleon, turning to
Caulaincourt for appreciation of this remark.

Balashev respectfully ventured to disagree with the French Emperor.

"Every country has its own character," said he.

"But nowhere in Europe is there anything like that," said Napoleon.

"I beg your Majesty's pardon," returned Balashev, "besides Russia
there is Spain, where there are also many churches and monasteries."

This reply of Balashev's, which hinted at the recent defeats of
the French in Spain, was much appreciated when he related it at
Alexander's court, but it was not much appreciated at Napoleon's
dinner, where it passed unnoticed.

The uninterested and perplexed faces of the marshals showed that
they were puzzled as to what Balashev's tone suggested. "If there is a
point we don't see it, or it is not at all witty," their expressions
seemed to say. So little was his rejoinder appreciated that Napoleon
did not notice it at all and naively asked Balashev through what towns
the direct road from there
to Moscow passed. Balashev, who was on
the alert all through the dinner, replied that just as "all roads lead
to Rome," so all roads lead to Moscow: there were many roads, and
"among them the road through Poltava, which Charles XII chose."
Balashev involuntarily flushed with pleasure at the aptitude of this
reply, but hardly had he uttered the word Poltava before
Caulaincourt began speaking of the badness of the road from Petersburg
to Moscow and of his Petersburg reminiscences.

After dinner they went to drink coffee in Napoleon's study, which
four days previously had been that of the Emperor Alexander.
Napoleon sat down, toying with his Sevres coffee cup, and motioned
Balashev to a chair beside him.

Napoleon was in that well-known after-dinner mood which, more than
any reasoned cause, makes a man contented with himself and disposed to
consider everyone his friend. It seemed to him that he was
surrounded by men who adored him: and he felt convinced that, after
his dinner, Balashev
too was his friend and worshiper. Napoleon turned
to him with a pleasant, though slightly ironic, smile.

"They tell me this is the room the Emperor Alexander occupied?
Strange, isn't it, General?" he said, evidently not doubting that this

remark would be agreeable to his hearer since it went to prove his, Napoleon's, superiority to Alexander.

Balashev made no reply and bowed his head in silence.

"Yes. Four days ago in this room, Wintzingerode and Stein were deliberating," continued Napoleon with the same derisive and self-confident smile. "What I can't understand," he went on, "is that the Emperor Alexander has surrounded himself with my personal enemies. That I do not... understand. Has he not thought that I may the same?" and he turned inquiringly to Balashev, and evidently this thought turned him back on to the track of his morning's anger, which was still fresh in him.

"And let him know that I will do so!" said Napoleon, rising and pushing his cup away with his hand. "I'll drive all his Wurttemberg, Baden, and Weimar relations out of Germany.... Yes. I'll drive them out. Let him prepare an asylum for them in Russia!"

Balashev bowed his head with an air indicating that he would like to make his bow and leave, and only listened because he could not help hearing what was said to him. Napoleon did not notice this expression; he treated Balashev not as an envoy from his enemy, but as a man now fully devoted to him and who must rejoice at his former master's humiliation.

"And why has the Emperor Alexander taken command of the armies? What is the good of that? War is my profession, but his business is to reign and not to command armies! Why has he taken on himself such a responsibility?"

Again Napoleon brought out his snuffbox, paced several times up and down the room in silence, and then, suddenly and unexpectedly, went up to Balashev and with a slight smile, as confidently, quickly, and simply as if he were doing something not merely important but pleasing to Balashev, he raised his hand to the forty-year-old Russian general's face and, taking him by the ear, pulled it gently, smiling with his lips only.

To have one's ear pulled by the Emperor was considered the greatest honor and mark of favor at the French court.

"Well, adorer and courtier of the Emperor Alexander, why don't you say anything?" said he, as if it was ridiculous, in his presence, to be the adorer and courtier of anyone but himself, Napoleon. "Are the horses ready for the general?" he added, with a slight inclination

of his head in reply to Balashev's bow. "Let him have mine, he has a long way to go!"

The letter taken by Balashev was the last Napoleon sent to Alexander. Every detail of the interview was communicated to the Russian monarch, and the war began...

CHAPTER VIII

After his interview with Pierre in Moscow, Prince Andrew went to Petersburg, on business as he told his family, but really to meet Anatole Kuragin whom he felt it necessary to encounter. On reaching Petersburg
he inquired for Kuragin but the latter had already left the city. Pierre had warned his brother-in-law that Prince Andrew was on his track. Anatole Kuragin promptly obtained an appointment from the Minister of War and went to join the army in Moldavia. While in Petersburg Prince Andrew met Kutuzov, his former commander who was always well disposed toward him, and Kutuzov suggested that he should accompany him to the army in Moldavia, to which the old general had been appointed commander in chief. So Prince Andrew, having received an appointment on the headquarters staff, left for Turkey.

Prince Andrew did not think it proper to write and challenge Kuragin. He thought that if he challenged him without some fresh cause it might compromise the young Countess Rostova and so he wanted to meet Kuragin personally in order to find a fresh pretext for a duel. But he again failed to meet Kuragin in Turkey, for soon after Prince Andrew arrived, the latter returned to Russia. In
a new country,
amid new conditions, Prince Andrew found life easier to bear. After his betrothed had broken faith with him--which he felt the more acutely the more he tried to conceal its effects--the surroundings in which he had been happy became trying to him, and the freedom and independence he had once prized so highly were still more so. Not only could he no longer think the thoughts that had first come to him as he lay gazing at the sky on the field of Austerlitz and had later enlarged upon with Pierre, and which had filled his solitude at Bogucharovo and then in Switzerland and Rome, but he even dreaded to recall them and the bright and boundless horizons they had revealed. He was now concerned only with the nearest practical matters unrelated to his past interests, and he seized on these the more eagerly the more those past interests were closed to him. It was as if

that lofty, infinite canopy of heaven that had once towered above him had suddenly turned into a low, solid vault that weighed him down, in which all was clear, but nothing eternal or mysterious.

Of the activities that presented themselves to him, army service was the simplest and most familiar. As a general on duty on Kutuzov's staff, he applied himself to business with zeal and perseverance and surprised Kutuzov by his willingness and accuracy in work. Not having found Kuragin in Turkey, Prince Andrew did not think it necessary to rush back to Russia after him, but all the same he knew that however long it might be before he met Kuragin, despite his contempt for him and despite all the proofs he deduced to convince himself that it was not worth stooping to a conflict with him--he knew that when he did meet him he would not be able to resist calling him out, any more than a ravenous man can help snatching at food. And the consciousness that the insult was not yet avenged, that his rancor was still unspent, weighed on his heart and poisoned the artificial tranquillity which he managed to obtain in Turkey by means of restless, plodding, and rather vainglorious and ambitious activity.

In the year 1812, when news of the war with Napoleon reached Bucharest--where Kutuzov had been living for two months, passing his days and nights with a Wallachian woman--Prince Andrew asked Kutuzov to transfer him to the Western Army. Kutuzov, who was already weary of Bolkonski's activity which seemed to reproach his own idleness, very readily let him go and gave him a mission to Barclay de Tolly.

Before joining the Western Army which was then, in May, encamped at Drissa, Prince Andrew visited Bald Hills which was directly on his way, being only two miles off the Smolensk highroad. During the last three years there had been so many changes in his life, he had thought, felt, and seen so much (having traveled both in the east and the west), that on reaching Bald Hills it struck him as strange and unexpected to find the way of life there unchanged and still the same in every detail. He entered through the gates with their stone pillars and drove up the avenue leading to the house as if he were entering an enchanted, sleeping castle. The same old stateliness, the same cleanliness, the same stillness reigned there, and inside there was the same furniture, the same walls, sounds, and smell, and the same timid faces, only somewhat older. Princess Mary was still the same timid, plain maiden getting on in years, uselessly and joylessly passing the best years of her life in fear and constant suffering. Mademoiselle Bourienne was the same coquettish, self-satisfied girl, enjoying every moment of her existence and full of joyous hopes for the future. She had merely become more

self-confident, Prince Andrew thought. Dessalles, the tutor he had brought from Switzerland, was wearing a coat of Russian cut and talking broken Russian to the servants, but was still the same narrowly intelligent, conscientious, and pedantic preceptor. The old prince had changed in appearance only by the loss of a tooth, which left a noticeable gap on one side of his mouth; in character he was the same as ever, only showing still more irritability and skepticism as to what was happening in the world. Little Nicholas alone had changed. He had grown, become rosier, had curly dark hair, and, when merry and laughing, quite unconsciously lifted the upper lip of his pretty little mouth just as the little princess used to do. He alone did not obey the law of immutability in the enchanted, sleeping castle. But though externally all remained as of old, the inner relations of all these people had changed since Prince Andrew had seen them last. The household was divided into two alien and hostile camps, who changed their habits for his sake and only met because he was there. To the one camp belonged the old prince, Madmoiselle Bourienne, and the architect; to the other Princess Mary, Dessalles, little Nicholas, and all the old nurses and maids.

During his stay at Bald Hills all the family dined together, but they were ill at ease and Prince Andrew felt that he was a visitor for whose sake an exception was being made and that his presence made them all feel awkward. Involuntarily feeling this at dinner on the first day, he was taciturn, and the old prince noticing this also became morosely dumb and retired to his apartments directly after dinner. In the evening, when Prince Andrew went to him and, trying to rouse him, began to tell him of the young Count Kamensky's campaign, the old prince began unexpectedly to talk about Princess Mary, blaming her for her superstitions and her dislike of Mademoiselle Bourienne, who, he said, was the only person really attached to him.

The old prince said that if he was ill it was only because of Princess Mary: that she purposely worried and irritated him, and that by indulgence and silly talk she was spoiling little Prince Nicholas. The old prince knew very well that he tormented his daughter and that her life was very hard, but he also knew that he could not help tormenting her and that she deserved it. "Why does Prince Andrew, who sees this, say nothing to me about his sister? Does he think me a scoundrel, or an old fool who, without any reason, keeps his own daughter at a distance and attaches this Frenchwoman to himself? He doesn't understand, so I must explain it, and he must hear me out," thought the old prince. And he began explaining why he could not put up with his daughter's unreasonable character.

"If you ask me," said Prince Andrew, without looking up (he was censuring his father for the first time in his life), "I did not wish to speak about it, but as you ask me I will give you my frank opinion. If there is any misunderstanding and discord between you and Mary, I can't blame her for it at all. I know how she loves and respects you. Since you ask me," continued Prince Andrew, becoming irritable--as he was always liable to do of late--"I can only say that if there are any misunderstandings they are caused by that worthless woman,
who is not fit to be my sister's companion."

The old man at first stared fixedly at his son, and an unnatural smile disclosed the fresh gap between his teeth to which Prince Andrew could not get accustomed.

"What companion, my dear boy? Eh? You've already been talking it over! Eh?"

"Father, I did not want to judge," said Prince Andrew, in a hard and bitter tone, "but you challenged me, and I have said, and always shall say, that Mary is not to blame, but those to blame--the one to blame--is that Frenchwoman."

"Ah, he has passed judgment... passed judgement!" said the old man in a low voice and, as it seemed to Prince Andrew, with some embarrassment, but then he suddenly jumped up and cried: "Be off, be off! Let not a trace of you remain here!..."

Prince Andrew wished to leave at once, but Princess Mary persuaded him to stay another day. That day he did not see his father, who did not leave his room and admitted no one but Mademoiselle Bourienne and Tikhon, but asked
several times whether his son had gone. Next day, before leaving, Prince Andrew went to his son's rooms. The boy, curly-headed like his mother and glowing with health, sat on his knee, and Prince Andrew began telling him the story of Bluebeard, but fell into a reverie without finishing the story. He thought not of this pretty child, his son whom he held on his knee, but of himself. He sought in himself either remorse for having angered his father or regret at leaving home for the first time in his life on bad terms with him, and was horrified to find neither. What meant still more to him was that he sought and did not find in himself the former tenderness for his son which he had hoped to reawaken by caressing the boy and taking him on his knee.

"Well, go on!" said his son.

Prince Andrew, without replying, put him down from his knee and went out of the room.

As soon as Prince Andrew had given up his daily occupations, and especially on returning to the old conditions of life amid which he had been happy, weariness of life overcame him with its former intensity, and he hastened to escape from these memories and to find some work as soon as possible.

"So you've decided to go, Andrew?" asked his sister.

"Thank God that I can," replied Prince Andrew. "I am very sorry you can't."

"Why do you say that?" replied Princess Mary. "Why do you say that, when you are going to this terrible war, and he is so old? Mademoiselle Bourienne says he has been asking about you...."

As soon as she began to speak of that, her lips trembled and her tears began to fall. Prince Andrew turned away and began pacing the room.

"Ah, my God! my God! When one thinks who and what--what trash--can cause people misery!" he said with a malignity that alarmed Princess Mary.

She understood that when speaking of "trash" he referred not only to Mademoiselle Bourienne, the cause of her misery, but also to the man who had ruined his own happiness.

"Andrew! One thing I beg, I entreat of you!" she said, touching his elbow and looking at him with eyes that shone through her tears. "I understand you" (she looked down). "Don't imagine that sorrow is the work of men. Men are His tools." She looked a little above Prince Andrew's head with the confident, accustomed look with which one looks at the place where a familiar portrait hangs. "Sorrow is sent by Him, not by men. Men are His instruments, they are not to blame. If you think someone has wronged you, forget it and forgive! We have no right to punish. And then you will know the happiness of forgiving."

"If I were a woman I would do so, Mary. That is a woman's virtue. But a man should not and cannot forgive and forget," he replied, and though till that moment he had not been thinking of Kuragin, all his unexpended anger suddenly swelled up in his heart.

"If Mary is already persuading me forgive, it means that I ought long ago to have punished him," he thought. And giving her no further reply, he began thinking of the glad vindictive moment when he would meet Kuragin who he knew was now in the army.

Princess Mary begged him to stay one day more, saying that she knew how unhappy her father would be if Andrew left without being reconciled to him, but Prince Andrew replied that he would probably soon be back again from the army and would certainly write to his father, but that the longer he stayed now the more embittered their differences would become.

"Good-by, Andrew! Remember that misfortunes come from God, and men are never to blame," were the last words he heard from his sister when he took leave of her.

"Then it must be so!" thought Prince Andrew as he drove out of the avenue from the house at Bald Hills. "She, poor innocent creature, is left to be victimized by an old man who has outlived his wits. The old man feels he is guilty, but cannot change himself. My boy is growing up and rejoices in life, in which like everybody else he will deceive or be deceived. And I am off to the army. Why? I myself don't know. I want to meet that man whom I despise, so as to give him a chance to kill and laugh at me!"

These conditions of life had been the same before, but then they were all connected, while now they had all tumbled to pieces. Only senseless things, lacking coherence, presented themselves one after another to Prince Andrew's mind.

CHAPTER IX

Prince Andrew reached the general headquarters of the army at the end of June. The first army, with which was the Emperor, occupied the fortified camp at Drissa; the second army was retreating, trying to effect a junction with the first one from which it was said to be cut off by large French forces. Everyone was dissatisfied with the general course of affairs in the Russian army, but no one anticipated any danger of invasion of the Russian provinces, and no one thought the war would extend farther than the western, the Polish, provinces.

Prince Andrew found Barclay de Tolly, to whom he had been assigned, on the bank of the Drissa. As there was not a single town or large village in the vicinity of the camp, the immense number of generals and courtiers accompanying the army were living in the best houses of the villages on both sides of the river, over a radius of six miles. Barclay de Tolly was quartered nearly three miles from the Emperor. He received Bolkonski stiffly and coldly and told him in his foreign accent that he would mention him to the Emperor for a decision as to his employment, but asked him meanwhile to remain on his staff. Anatole Kuragin, whom Prince Andrew had hoped to find with the army, was not there. He had gone to Petersburg, but Prince Andrew was glad to hear this. His mind was occupied by the interests of the center that was conducting a gigantic war, and he was glad to be free for a while from the distraction caused by the thought of Kuragin. During the first four days, while no duties were required of him, Prince Andrew rode round the whole fortified camp and, by the aid of his own knowledge and by talks with experts, tried to form a definite opinion about it. But the question whether the camp was advantageous or disadvantageous remained for him undecided. Already from his military experience and what he had seen in the Austrian campaign, he had come to the conclusion that in war the most deeply considered plans have no significance and that all depends on the way unexpected movements of the enemy--that cannot be foreseen- are met, and on how and by whom the whole matter is handled. To clear up this last point for himself, Prince Andrew, utilizing his position and acquaintances, tried to fathom the character of the control of the army and of the men and parties engaged in it, and he deduced for himself the following of the state of affairs.

While the Emperor had still been at Vilna, the forces had been divided into three armies. First, the army under Barclay de Tolly, secondly, the army under Bagration, and thirdly, the one commanded by Tormasov. The Emperor was with the first army, but not as commander in chief. In the orders issued it was stated, not that the Emperor would take command, but only that he would be with the army. The Emperor, moreover, had with him not a commander in chief's staff but the imperial headquarters staff. In attendance on him was the head of the imperial staff, Quartermaster General Prince Volkonski, as well as generals, imperial aides-de-camp, diplomatic officials, and a large number of foreigners, but not the army staff. Besides these, there were in attendance on the Emperor without any definite appointments: Arakcheev, the ex-Minister of War; Count Bennigsen, the senior general in rank; the Grand Duke Tsarevich Constantine Pavlovich; Count Rumyantsev, the Chancellor; Stein, a former Prussian minister;

Armfeldt, a Swedish general; Pfuel, the chief author of the plan of campaign; Paulucci, an adjutant general and Sardinian emigre; Wolzogen--and many others. Though these men had no military appointment in the army, their position gave them influence, and often a corps commander, or even the commander in chief, did not know in what capacity he was questioned by Bennigsen, the Grand Duke, Arakcheev, or Prince Volkonski, or was given this or that advice and did not know whether a certain order received in the form of advice emanated from the man who gave it or from the Emperor and whether it had to be executed or not. But this was only the external condition; the essential significance of the presence of the Emperor and of all these people, from a courtier's point of view (and in an Emperor's vicinity all became courtiers), was clear to everyone. It was this: the Emperor did not assume the title of commander in chief, but disposed of all the armies; the men around him were his assistants. Arakcheev was a faithful custodian to enforce order and acted as the sovereign's bodyguard. Bennigsen was a landlord in the Vilna province who appeared to be doing the honors of the district, but was in reality a good general, useful as an adviser and ready at hand to replace Barclay. The Grand Duke was there because it suited him to be. The ex-Minister Stein was there because his advice was useful and the Emperor Alexander held him in high esteem personally. Armfeldt virulently hated Napoleon and was a general full of self-confidence, a quality that always influenced Alexander. Paulucci was there because he was bold and decided in speech. The adjutants general were there because they always accompanied the Emperor, and lastly and chiefly Pfuel was there because he had drawn up the plan of campaign against Napoleon and, having induced Alexander to believe in the efficacy of that plan, was directing the whole business of the war. With Pfuel was Wolzogen, who expressed Pfuel's thoughts in a more comprehensible way than Pfuel himself (who was a harsh, bookish theorist, self-confident to the point of despising everyone else) was able to do.

Besides these Russians and foreigners who propounded new and unexpected ideas every day--especially the foreigners, who did so with a boldness characteristic of people employed in a country not their own--there were many secondary personages accompanying the army because their principals were there.

Among the opinions and voices in this immense, restless, brilliant, and proud sphere, Prince Andrew noticed the following sharply defined subdivisions of and parties:

The first party consisted of Pfuel and his adherents--military

theorists who believed in a science of war with immutable laws--laws of oblique movements, outflankings, and so forth. Pfuel and his adherents demanded a retirement into the depths of the country in accordance with precise laws defined by a pseudo-theory of war, and they saw only barbarism, ignorance, or evil intention in every deviation from that theory. To this party belonged the foreign nobles, Wolzogen, Wintzingerode, and others, chiefly Germans.

The second party was directly opposed to the first; one extreme, as always happens, was met by representatives of the other. The members of this party were those who had demanded an advance from Vilna into Poland and freedom from all prearranged plans. Besides being advocates of bold action, this section also represented nationalism, which made them still more one-sided in the dispute. They were Russians: Bagration, Ermolov (who was beginning to come to the front), and others. At that time a famous joke of Ermolov's was being circulated, that as a great favor he had petitioned the Emperor to make him a German. The men of that party, remembering Suvorov, said that what one had to do was not to reason, or stick pins into maps, but to fight, beat the enemy, keep him out of Russia, and not let the army get discouraged.

To the third party--in which the Emperor had most confidence-belonged the courtiers who tried to arrange compromises between the other two. The members of this party, chiefly civilians and to whom Arakcheev belonged, thought and said what men who have no convictions but wish to seem to have some generally say. They said that undoubtedly war, particularly against such a genius as Bonaparte (they called him Bonaparte now), needs most deeply devised plans and profound scientific knowledge and in that respect Pfuel was a genius, but at the same time it had to be acknowledged that the theorists are often one sided, and therefore one should not trust them absolutely, but should also listen to what Pfuel's opponents and practical men of experience in warfare had to say, and then choose a middle course. They insisted on the retention of the camp at Drissa, according to Pfuel's plan, but on changing the movements of the other armies. Though, by this course, neither one aim nor the other could be attained, yet it seemed best to the adherents of this third party.

Of a fourth opinion the most conspicuous representative was the Tsarevich, who could not forget his disillusionment at Austerlitz, where he had ridden out at the head of the Guards, in his casque and cavalry uniform as to a review, expecting to crush the French gallantly; but unexpectedly finding himself in the front line had

narrowly escaped amid the general confusion. The men of this party had both the quality and the defect of frankness in their opinions. They feared Napoleon, recognized his strength and their own weakness, and frankly said so. They said: "Nothing but sorrow, shame, and ruin will come of all this! We have abandoned Vilna and Vitebsk and shall abandon Drissa. The only reasonable thing left to do is to conclude peace as soon as possible, before we are turned out of Petersburg."

This view was very general in the upper army circles and found support also in Petersburg and from the chancellor, Rumyantsev, who, for other reasons of state, was in favor of peace.

The fifth party consisted of those who were adherents of Barclay de Tolly, not so much as a man but as minister of war and commander in chief. "Be he what he may" (they always began like that), "he is an honest, practical man and we have nobody better. Give him real power, for war cannot be conducted successfully without unity of command, and he will show what he can do, as he did in Finland. If our army is well organized and strong and has withdrawn to Drissa without suffering any defeats, we owe this entirely to Barclay. If Barclay is now to be superseded by Bennigsen all will be lost, for Bennigsen showed his incapacity already in 1807."

The sixth party, the Bennigsenites, said, on the contrary, that at any rate there was no one more active and experienced than Bennigsen: "and twist about as you may, you will have to come to Bennigsen eventually. Let the others make mistakes now!" said they, arguing that our retirement to Drissa was a most shameful reverse and an unbroken series of blunders. "The more mistakes that are made the better. It will at any rate be understood all the sooner that things cannot go on like this. What is wanted is not some Barclay or other, but a man like Bennigsen, who made his mark in 1807, and to whom Napoleon himself did justice--a man whose authority would be willingly recognized, and Bennigsen is the only such man."

The seventh party consisted of the sort of people who are always to be found, especially around young sovereigns, and of whom there were particularly many round Alexander--generals and imperial aides-de-camp passionately devoted to the Emperor, not merely as a monarch but as a man, adoring him sincerely and disinterestedly, as Rostov had done in 1805, and who saw in him not only all the virtues but all human capabilities as well. These men, though enchanted with the sovereign for refusing the command of the army, yet blamed him for such excessive modesty, and only desired and insisted that their adored sovereign should abandon his diffidence and openly announce that he would place himself at the head of the army, gather round

him a commander in chief's staff, and, consulting experienced theoreticians and practical men where necessary, would himself lead the troops, whose spirits would thereby be raised to the highest pitch.

The eighth and largest group, which in its enormous numbers was to the others as ninety-nine to one, consisted of men who desired neither peace nor war, neither an advance nor a defensive camp at the Drissa or anywhere else, neither Barclay nor the Emperor, neither Pfuel nor Bennigsen, but only the one most essential thing--as much advantage and pleasure for themselves as possible. In the troubled waters of conflicting and intersecting intrigues that eddied about the Emperor's headquarters, it was possible to succeed in many ways unthinkable at other times. A man who simply wished to retain his lucrative post would today agree with Pfuel, tomorrow with his opponent, and the day after, merely to avoid responsibility or to please the Emperor, would declare that he had no opinion at all on the matter. Another who wished to gain some advantage would attract the Emperor's attention by loudly advocating the very thing the Emperor had hinted at the day before, and would dispute and shout at the council, beating his breast and challenging those who did not agree with him to duels, thereby proving that he was prepared to sacrifice himself for the common good. A third, in the absence of opponents, between two councils would simply solicit a special gratuity for his faithful services, well knowing that at that moment people would be too busy to refuse him. A fourth while seemingly overwhelmed with work would often come accidentally under the Emperor's eye. A fifth, to achieve his long-cherished aim of dining with the Emperor, would stubbornly insist on the correctness or falsity of some newly emerging opinion and for this object would produce arguments more or less forcible and correct.

All the men of this party were fishing for rubles, decorations, and promotions, and in this pursuit watched only the weathercock of imperial favor, and directly they noticed it turning in any direction, this whole drone population of the army began blowing hard that way, so that it was all the harder for the Emperor to turn it elsewhere. Amid the uncertainties of the position, with the menace of serious danger giving a peculiarly threatening character to everything, amid this vortex of intrigue, egotism, conflict of views and feelings, and the diversity of race among these people--this eighth and largest party of those preoccupied with personal interests imparted great confusion and obscurity to the common task. Whatever question arose, a swarm of these drones, without having finished their buzzing on a previous theme, flew over to the new one and by their hum drowned and obscured the voices of those who were disputing honestly.

From among all these parties, just at the time Prince Andrew reached the army, another, a ninth party, was being formed and was beginning to raise its voice. This was the party of the elders, reasonable men experienced and capable
in state affairs, who, without sharing any
of those conflicting opinions, were able to take a detached view of what was going on at the staff at headquarters and to consider means of escape from this muddle, indecision, intricacy, and weakness.

The men of this party said and thought that what was wrong resulted chiefly from the Emperor's presence in the army with his military court and from the consequent presence there of an indefinite, conditional, and unsteady fluctuation of relations, which is in place at court but harmful in an army; that a sovereign should reign but not command the army, and that the only way out of the position would be for the Emperor and his court to leave the army; that the mere presence of the Emperor paralyzed the action of fifty thousand men required to secure his personal safety, and that the worst commander in chief if independent would be better than the very best one trammeled by the presence and authority of the monarch.

Just at the time Prince Andrew
was living unoccupied at Drissa,
Shishkov, the Secretary of State and one of the chief representatives of this party, wrote a letter to the Emperor which Arakcheev and Balashev agreed to sign. In this letter, availing himself of permission given him by the Emperor to discuss the general course of affairs, he respectfully suggested--on the plea that it was necessary for the sovereign to arouse a warlike spirit in the people of the capital--that the Emperor should leave the army.

That arousing of the people by their sovereign and his call to them to defend their country--the very incitement which was the chief cause of Russia's triumph in so far as it was produced by the Tsar's personal presence in Moscow--was suggested to the Emperor, and accepted by him, as a pretext for quitting the army.

CHAPTER X

This letter had not yet been presented to the Emperor when Barclay, one day at dinner, informed Bolkonski that the sovereign wished to see him personally, to question him about

Turkey, and that
Prince Andrew was to present himself at Bennigsen's quarters at six
that evening.

News was received at the Emperor's quarters that very day of a fresh
movement by Napoleon which might endanger the army--news
subsequently found to be false. And that morning Colonel Michaud had
ridden round the Drissa fortifications with the Emperor and had
pointed out to him that this fortified camp constructed by Pfuel,
and till then considered a chef-d'oeuvre of tactical science which
would ensure Napoleon's destruction, was an absurdity, threatening the
destruction of the Russian army.

Prince Andrew arrived at Bennigsen's quarters--a country gentleman's
house of moderate size, situated on the very banks of the river.
Neither Bennigsen nor the Emperor was there, but Chernyshev, the
Emperor's aide-de-camp, received Bolkonski and informed him that the
Emperor, accompanied by General Bennigsen and Marquis Paulucci, had
gone a second time that day to inspect the fortifications of the
Drissa
camp, of the suitability of which serious doubts were beginning
to be felt.

Chernyshev was sitting at a window in the first room with a French
novel in his hand. This room had probably been a music room; there was
still an organ in it on which some rugs were piled, and in one
corner stood the folding bedstead of Bennigsen's adjutant. This
adjutant was also there and sat dozing on the rolled-up bedding,
evidently exhausted by work or by feasting. Two doors led from the
room, one straight on into what had been the drawing room, and
another, on the right, to the study. Through the first door came the
sound of voices conversing in German and occasionally in French. In
that drawing room were gathered, by the Emperor's wish, not a military
council (the Emperor preferred indefiniteness), but certain persons
whose opinions he wished to know in view of the impending
difficulties. It was not a council of war, but, as it were, a
council to elucidate certain questions for the Emperor personally.
To
this semicouncil had been invited the Swedish General Armfeldt,
Adjutant General Wolzogen, Wintzingerode (whom Napoleon had referred
to as a renegade French subject), Michaud, Toll, Count Stein who was
not a military man at all, and Pfuel himself, who, as Prince Andrew
had heard, was the mainspring of the whole affair. Prince Andrew had
an opportunity of getting a good look at him, for Pfuel arrived soon
after himself and, in passing through to the drawing room, stopped a
minute to speak to Chernyshev.

At first sight, Pfuel, in his ill-made uniform of a Russian general,

which fitted him badly like a fancy costume, seemed familiar to Prince Andrew, though he saw him now for the first time. There was about him something of Weyrother, Mack, and Schmidt, and many other German theorist-generals whom Prince Andrew had seen in 1805, but he was more typical than any of them. Prince Andrew had never yet seen a German theorist in whom all the characteristics of those others were united to such an extent.

Pfuel was short and very thin but broad-boned, of coarse, robust build, broad in the hips, and with prominent shoulder blades. His face was much wrinkled and his eyes deep set. His hair had evidently been hastily brushed smooth in front of the temples, but stuck up behind in quaint little tufts. He entered the room, looking restlessly and angrily around, as if afraid of everything in that large apartment. Awkwardly holding up his sword, he addressed Chernyshev and asked in German where the Emperor was. One could see that he wished to pass through the rooms as quickly as possible, finish with the bows and greetings, and sit down to business in front of a map, where he would feel at home. He nodded hurriedly in reply to Chernyshev, and smiled ironically on hearing that the sovereign was inspecting the fortifications that he, Pfuel, had planned in accord with his theory. He muttered something to himself abruptly and in a bass voice, as self-assured Germans do--it might have been "stupid fellow"... or "the whole affair will be ruined," or "something absurd will come of it."... Prince Andrew did not catch what he said and would have passed on, but Chernyshev introduced him to Pfuel, remarking that Prince Andrew was just back from Turkey where the war had terminated so fortunately. Pfuel barely glanced--not so much at Prince Andrew as past him--and said, with a laugh: "That must have been a fine tactical war"; and, laughing contemptuously, went on into the room from which the sound of voices was heard.

Pfuel, always inclined to be irritably sarcastic, was particularly disturbed that day, evidently by the fact that they had dared to inspect and criticize his camp in his absence. From this short interview with Pfuel, Prince Andrew, thanks to his Austerlitz experiences, was able to form a clear conception of the man. Pfuel was one of those hopelessly and immutably self-confident men, self-confident to the point of martyrdom as only Germans are, because only Germans are self-confident on the basis of an abstract notion--science, that is, the supposed knowledge of absolute truth. A Frenchman is self-assured because he regards himself personally, both in mind and body, as irresistibly attractive to men and women. An Englishman is self-assured, as being a citizen of the best-organized state in the world, and therefore as an Englishman always knows what

he should do and knows that all he does as an Englishman is undoubtedly correct. An Italian is self-assured because he is excitable and easily forgets himself and other people. A Russian is self-assured just because he knows nothing does not want to know anything, since he does not believe that anything can be known. The German's self-assurance is worst of all, stronger and more repulsive than any other, because he imagines that he knows the truth-science--which he himself has invented but which is for him the absolute truth.

Pfuel was evidently of that sort. He had a science--the theory of oblique movements deduced by him from the history of Frederick the Great's wars, and all he came across in the history of more recent warfare seemed to him absurd and barbarous--monstrous collisions in which so many blunders were committed by both sides that these wars could not be called wars, they did not accord with the theory, and therefore could not serve as material for science.

In 1806 Pfuel had been one of those responsible, for the plan of campaign that ended in Jena and Auerstadt, but he did not see the least proof of the fallibility of his theory in the disasters of that war. On the contrary, the deviations made from his theory were, in his opinion, the sole cause of the whole disaster, and with characteristically gleeful sarcasm he would remark, "There, I said the whole affair would go to the devil!" Pfuel was one of those theoreticians who so love their theory that they lose sight of the theory's object--its practical application. His love of theory made him hate everything practical, and he would not listen to it. He was even pleased by failures, for failures resulting from deviations in practice from the theory only proved to him the accuracy of his theory.

He said a few words to Prince Andrew and Chernyshev about the present war, with the air of a man who knows beforehand that all will go wrong, and who is not displeased that it should be so. The unbrushed tufts of hair sticking up behind and the hastily brushed hair on his temples expressed this most eloquently.

He passed into the next room, and the deep, querulous sounds of his voice were at once heard from there.

CHAPTER XI

Prince Andrew's eyes were still following Pfuel out of the room when Count Bennigsen entered hurriedly, and nodding to Bolkonski, but not pausing, went into the study, giving instructions to his adjutant as he went. The Emperor was following him, and Bennigsen had hastened on to make some preparations and to be ready to receive the sovereign. Chernyshev and Prince
Andrew went out into the porch, where the
Emperor, who looked fatigued, was dismounting. Marquis Paulucci was talking to him with particular warmth and the Emperor, with his head bent to the left, was listening with a dissatisfied air. The Emperor moved forward evidently wishing to end the conversation, but the flushed and excited Italian, oblivious of decorum, followed him and continued to speak.

"And as for the man who advised forming this camp--the Drissa camp," said Paulucci, as the Emperor mounted the steps and noticing Prince Andrew scanned his unfamiliar face, "as to that person, sire..." continued Paulucci, desperately, apparently unable to restrain himself, "the man who advised the Drissa camp--I see no alternative but the lunatic asylum or the gallows!"

Without heeding the end of the Italian's remarks, and as though not hearing them, the Emperor, recognizing Bolkonski, addressed him graciously.

"I am very glad to see you! Go in there where they are meeting, and wait for me."

The
Emperor went into the study. He was followed by Prince Peter Mikhaylovich Volkonski and Baron Stein, and the door closed behind them. Prince Andrew, taking advantage of the Emperor's permission, accompanied Paulucci, whom he had known in Turkey, into the drawing room where the council was assembled.

Prince Peter Mikhaylovich Volkonski occupied the position, as it were, of chief of the Emperor's staff. He came out of the study into the drawing room with some maps which he spread on a table, and put questions on which he wished to hear the opinion of the gentlemen present. What had happened was that news (which afterwards proved to be false) had been received during the night of a movement by the French to outflank the Drissa camp.

The first to speak was General Armfeldt who, to meet the difficulty that presented itself, unexpectedly proposed a perfectly new position away from the Petersburg and Moscow roads. The reason for

this was inexplicable (unless he wished to show that he, too, could have an opinion), but he urged that at this point the army should unite and there await the enemy. It was plain that Armfeldt had thought out that plan long ago and now expounded it not so much to answer the questions put--which, in fact, his plan did not answer-as to avail himself of the opportunity to air it. It was one of the millions of proposals, one as good as another, that could be made as long as it was quite unknown what character the war would take. Some disputed his arguments, others defended them. Young Count Toll objected to the Swedish general's views more warmly than anyone else, and in the course of the dispute drew from his side pocket a well-filled notebook, which he asked permission to read to them. In these voluminous notes Toll suggested another scheme, totally different from Armfeldt's or Pfuel's plan of campaign. In answer to Toll, Paulucci suggested an advance and an attack, which, he urged, could alone extricate us from the present uncertainty and from the trap (as he called the Drissa camp) in which we were situated.

During all these discussions Pfuel and his interpreter, Wolzogen (his "bridge" in court relations), were silent. Pfuel only snorted contemptuously and turned away, to show that he would never demean himself by replying to such nonsense as he was now hearing. So when Prince Volkonski, who was in the chair, called on him to give his opinion, he merely said:

"Why ask me? General Armfeldt has proposed a splendid position with an exposed rear, or why not this Italian gentleman's attack--very fine, or a retreat, also good! Why ask me?" said he. "Why, you yourselves know everything better than I do."

But when Volkonski said, with a frown, that it was in the Emperor's name that he asked his opinion, Pfuel rose and, suddenly growing animated, began to speak:

"Everything has been spoiled, everything muddled, everybody thought they knew better than I did, and now you come to me! How mend matters? There is nothing to mend! The principles laid down by me must be strictly adhered to," said he, drumming on the table with his bony fingers. "What is the difficulty? Nonsense, childishness!"

He went up to the map and speaking rapidly began proving that no eventuality could alter the efficiency of the Drissa camp, that everything had been foreseen, and that if the enemy were really going to outflank it, the enemy would inevitably be destroyed.

Paulucci, who did not know German, began questioning him in French. Wolzogen came to the assistance of his chief, who spoke French badly, and began translating for him, hardly able to keep pace with Pfuel, who was rapidly demonstrating that not only all that had happened, but all that could happen, had been foreseen in his scheme, and that if there were now any difficulties the whole fault lay in the fact that his plan had not been precisely executed. He kept laughing sarcastically, he demonstrated, and at last contemptuously ceased to demonstrate, like a mathematician who ceases to prove in various ways the accuracy of a problem that has already been proved. Wolzogen took his place and continued to explain his views in French, every now and then turning to Pfuel and saying, "Is it not so, your excellency?" But Pfuel, like a man heated in a fight who

strikes those on his own side, shouted angrily at his own supporter, Wolzogen:

"Well, of course, what more is there to explain?"

Paulucci and Michaud both attacked Wolzogen simultaneously in French. Armfeldt addressed Pfuel in German. Toll explained to Volkonski in Russian. Prince Andrew listened and observed in silence.

Of all these men Prince Andrew sympathized most with Pfuel, angry, determined, and absurdly self-confident as he was. Of all those present, evidently he alone was not seeking anything for himself, nursed no hatred against anyone, and only desired that the plan, formed on a theory arrived at by years of toil, should be carried out. He was ridiculous, and unpleasantly sarcastic, but yet he inspired involuntary respect by his boundless devotion to an idea. Besides this, the remarks of all except Pfuel had one common trait that had not been noticeable at the council of war in 1805: there was now a panic fear of Napoleon's genius, which, though concealed, was noticeable in every rejoinder. Everything was assumed to be possible for Napoleon, they expected him from every side, and invoked his terrible name to shatter each other's proposals. Pfuel alone seemed to consider Napoleon a barbarian like everyone else who opposed his theory. But besides this feeling of respect, Pfuel evoked pity in Prince Andrew. From the tone in which the courtiers addressed him and the way Paulucci had allowed himself to speak of him to the Emperor, but above all from a certain desperation in Pfuel's own expressions, it was clear that the others knew, and Pfuel himself felt, that his fall was at hand. And despite his self-confidence and grumpy German sarcasm he was pitiable, with his hair smoothly brushed

on the temples and sticking up in tufts behind. Though he concealed the fact under a show of irritation and contempt, he was evidently in despair that the sole remaining chance of verifying his theory by a huge experiment and proving its soundness to the whole world was slipping away from him.

The discussions continued a long time, and the longer they lasted the more heated became the disputes, culminating in shouts and personalities, and the less was it possible to arrive at any general conclusion from all that had been said. Prince Andrew, listening to this polyglot talk and to these surmises, plans, refutations, and shouts, felt nothing but amazement at what they were saying. A thought that had long since and often occurred to him during his military activities--the idea that there is not and cannot be any science of war, and that therefore there can be no such thing as a military genius--now appeared to him an obvious truth. "What theory and science is possible about
a matter the conditions and circumstances of which are unknown and cannot be defined, especially when the strength of the acting forces cannot be ascertained? No one was or is able to foresee in what condition our or the enemy's armies will be in a day's time, and no one can gauge the force of this or that detachment. Sometimes--when there is not a coward at the front to shout, 'We are cut off!' and start running, but a brave and jolly lad who shouts, 'Hurrah!'--a detachment of five thousand is worth thirty thousand, as at Schon Grabern, while at times fifty thousand run from eight thousand, as at Austerlitz. What science can there be in a matter in which, as in all practical matters, nothing can be defined and everything depends on innumerable conditions, the significance of which is determined at a particular moment which arrives no one knows when? Armfeldt says our army is cut in half, and Paulucci says we have got the French army between two fires; Michaud says that the worthlessness
of the Drissa camp lies in having the river behind it, and Pfuel says that is what constitutes its strength; Toll proposes one plan, Armfeldt another, and they are all good and all bad, and the advantages of any suggestions can be seen only at the moment of trial. And why do they all speak of a 'military genius'? Is a man a genius who can order bread to be brought up at the right time and say who is to go to the right and who to the left? It is only because military men are invested with pomp and power and crowds of sychophants flatter power, attributing to it qualities of genius it does not possess. The best generals I have known were, on the contrary, stupid or absent-minded men. Bagration was the best, Napoleon himself admitted that. And of Bonaparte himself! I remember his limited, self-satisfied face on the field of Austerlitz. Not only does a good army commander not need any special qualities, on the contrary he needs the absence of the highest and best human attributes--love,

poetry, tenderness,
and philosophic inquiring doubt. He should be limited, firmly convinced that what he is doing is very important (otherwise he will not have sufficient patience), and only then will he be a brave leader. God forbid that he should be humane, should love, or pity, or think of what is just and unjust. It is understandable that a theory of their 'genius' was invented for them long ago because they have power! The success of a military action depends not on them, but on the man in the ranks who shouts, 'We are lost!' or who shouts, 'Hurrah!' And only in the ranks can one serve with assurance of being useful."

So thought Prince Andrew as he listened to the talking, and he roused himself only when Paulucci called him and everyone was leaving.

At the review next day the Emperor asked Prince Andrew where he would like to serve, and Prince Andrew lost his standing in court circles forever by not asking to remain attached to the sovereign's person, but for permission to serve
in the army.

CHAPTER XII

Before the beginning of the campaign, Rostov had received a letter from his parents in which they told him briefly of Natasha's illness and the breaking off of her engagement to Prince Andrew (which they explained by Natasha's having rejected him) and again asked Nicholas to retire from the army and return home. On receiving this letter, Nicholas did not even make any attempt to get leave of absence or to retire from the army, but wrote to his parents that he was sorry Natasha was ill and her engagement broken off, and that he would do all he could to meet their wishes. To Sonya he wrote separately.

"Adored friend of my soul!" he wrote. "Nothing but honor could keep me from returning to the country. But now, at the commencement of the campaign, I should feel dishonored, not only in my comrades' eyes but in my own, if I preferred my own happiness to my love and duty to the Fatherland. But this shall be our last separation. Believe me, directly the war
is over, if I am still alive and still loved by
you, I will throw up everything and fly to you, to press you forever to my ardent breast."

It was, in fact, only the commencement of the campaign that prevented Rostov from returning home as he had promised and marrying Sonya. The autumn in Otradnoe with the hunting, and the winter with the Christmas holidays and Sonya's love, had opened out to him a vista of tranquil rural joys and peace such as he had never known before, and which now allured him. "A splendid wife, children, a good pack of hounds, a dozen leashes of smart borzois, agriculture, neighbors, service by election..." thought he. But now the campaign was beginning, and he had to remain with his regiment. And since it had to be so, Nicholas Rostov, as was natural to him, felt contented with the life he led in the regiment and was able to find pleasure in that life.

On his return from his furlough Nicholas, having been joyfully welcomed by his comrades, was sent to obtain remounts and brought back from the Ukraine excellent horses which pleased him and earned him commendation from his commanders. During his absence he had been promoted captain, and when the regiment was put on war footing with an increase in numbers, he was again allotted his old squadron.

The campaign began, the regiment was moved into Poland on double pay, new officers arrived, new men and horses, and above all everybody was infected with the merrily excited mood that goes with the commencement of a war, and Rostov, conscious of his advantageous position in the regiment, devoted himself entirely to the pleasures and interests of military service, though he knew that sooner or later he would have to relinquish them.

The troops retired from Vilna for various complicated reasons of state, political and strategic. Each step of the retreat was accompanied by a complicated interplay of interests, arguments, and passions at headquarters. For the Pavlograd hussars, however, the whole of this retreat during the finest period of summer and with sufficient supplies was a very simple and agreeable business.

It was only at headquarters that there was depression, uneasiness, and intriguing; in the body of the army they did not ask themselves where they were going or why. If they regretted having to retreat, it was only because they had to leave billets they had grown accustomed to, or some pretty young Polish lady. If the thought that things looked bad chanced to enter anyone's head, he tried to be as cheerful as befits a good soldier and not to think of the general trend of affairs, but only of the task nearest to hand. First they camped gaily before Vilna, making acquaintance with the Polish landowners, preparing for reviews and being reviewed by the Emperor and other high commanders. Then came an order to retreat to Sventsyani

and destroy any provisions they could not carry away with them. Sventsyani was remembered by the hussars only as the drunken camp, a name the whole army
gave to their encampment there, and because many
complaints were made against the troops, who, taking advantage of the order to collect provisions, took also horses, carriages, and carpets from the Polish proprietors. Rostov remembered Sventsyani, because on the first day of their arrival at that small town he changed his sergeant major and was unable to manage all the drunken men of his squadron who, unknown to him, had appropriated five barrels of old beer. From Sventsyani they retired farther and farther to Drissa, and thence again beyond Drissa, drawing near to the frontier of Russia proper.

On the thirteenth of July the Pavlograds took part in a serious action for the first time.

On the twelfth of July, on the eve of that action, there was a heavy storm of rain and hail. In general, the summer of 1812 was remarkable for its storms.

The two Pavlograd squadrons were bivouacking on a field of rye, which was already in ear but had been completely trodden down by cattle and horses.
The rain was descending in torrents, and Rostov,
with a young officer named Ilyin, his protege, was sitting in a hastily constructed shelter. An officer of their regiment, with long mustaches extending onto his cheeks, who after riding to the staff had been overtaken by the rain, entered Rostov's shelter.

"I have come from the staff, Count. Have you heard of Raevski's exploit?"

And the officer gave them details of the Saltanov battle, which he had heard at the staff.

Rostov, smoking his pipe and turning his head about as the water trickled down his neck, listened inattentively, with an occasional glance at Ilyin, who was pressing close to him. This officer, a lad of sixteen who had recently joined the regiment, was now in the same relation to Nicholas that Nicholas had been to Denisov seven years before. Ilyin tried to imitate Rostov in everything and adored him as a girl might have done.

Zdrzhinski, the officer with the long mustache, spoke
grandiloquently of the Saltanov dam being
"a Russian Thermopylae," and
of how a deed worthy of antiquity had been performed by General

Raevski. He recounted how Raevski had led his two sons onto the dam under terrific fire and had charged with them beside him. Rostov heard the story and not only said nothing to encourage Zdrzhinski's enthusiasm but, on the contrary, looked like a man ashamed of what he was hearing, though with no intention of contradicting it. Since the campaigns of Austerlitz and of 1807 Rostov knew by experience that men always lie when describing military exploits, as he himself had done when recounting them; besides that, he had experience enough to know that nothing happens in war at all as we can imagine or relate it. And so he did not like Zdrzhinski's tale, nor did he like Zdrzhinski himself who, with his mustaches extending over his cheeks, bent low over the face of his hearer, as was his habit, and crowded Rostov in the narrow shanty. Rostov looked at him in silence. "In the first place, there must
have been such a confusion
and crowding on the dam that was being attacked that if Raevski did lead his sons there, it could have had no effect except perhaps on some dozen men nearest to him," thought he, "the rest could not have seen how or with whom Raevski came onto the dam. And even those who did see it would not have been much stimulated by it, for what had they to do with Raevski's tender paternal feelings when their own skins were in danger? And besides, the fate of the Fatherland did not depend on whether they took the Saltanov dam or not, as we are told was the case at Thermopylae. So why should he have made such a sacrifice? And why expose his own children in the battle? I would not have taken my brother Petya there, or even Ilyin, who's a stranger to me but a nice lad, but would have tried to put them somewhere under cover," Nicholas continued to think, as he listened to Zdrzhinski. But he did not express his thoughts, for in such matters, too, he had gained experience.
He knew that this tale redounded to the glory of
our arms and so one had to pretend not to doubt it. And he acted accordingly.

"I can't stand this any more," said Ilyin, noticing that Rostov did not relish Zdrzhinski's conversation. "My stockings and shirt... and the water is running on my seat! I'll go and look for shelter. The rain seems less heavy."

Ilyin went out and Zdrzhinski rode away.

Five minutes later Ilyin, splashing through the mud, came running back to the shanty.

"Hurrah! Rostov, come quick! I've found it! About two hundred yards away there's a tavern where ours have already gathered. We can at least get dry there, and Mary Hendrikhovna's there."

Mary Hendrikhovna was the wife of the regimental doctor, a pretty young German woman he had married in Poland. The doctor, whether from lack of means or because he did not like to part from his young wife in the early days of their marriage, took her about with him wherever the hussar regiment went and his jealousy had become a standing joke among the hussar officers.

Rostov threw his cloak over his shoulders, shouted to Lavrushka to follow with the things, and--now slipping in the mud, now splashing right through it--set off with Ilyin in the lessening rain and the darkness that was occasionally rent by distant lightning.

"Rostov, where are you?"

"Here. What lightning!" they called to one another.

CHAPTER XIII

In the tavern, before which stood the doctor's covered cart, there were already some five officers. Mary Hendrikhovna, a plump little blonde German, in a dressing jacket and nightcap, was sitting on a broad bench in the front corner. Her husband, the doctor, lay asleep behind her. Rostov and Ilyin, on entering the room, were welcomed with merry shouts and laughter.

"Dear me, how jolly we are!" said Rostov laughing.

"And why do you stand there gaping?"

"What swells they are! Why, the water streams from them! Don't make our drawing room so wet."

"Don't mess Mary Hendrikhovna's dress!" cried other voices.

Rostov and Ilyin hastened to find a corner where they could change into dry clothes without offending Mary Hendrikhovna's modesty. They were going into a tiny recess behind a partition to change, but found it completely filled by three officers who sat playing cards by the light of a solitary candle on an empty box, and these officers would on no account yield their position. Mary Hendrikhovna obliged them with the loan of a petticoat to be used as a curtain, and

behind that screen Rostov and Ilyin, helped by Lavrushka who had brought their kits, changed their wet things for dry ones.

A fire was made up in the dilapidated brick stove. A board was found, fixed on two saddles and covered with a horsecloth, a small samovar was produced and a cellaret and half a bottle of rum, and having asked Mary Hendrikhovna to preside, they all crowded round her. One offered her a clean handkerchief to wipe her charming hands, another spread a jacket under her little feet to keep them from the damp, another hung his coat over the window to keep out the draft, and yet another waved the flies off her husband's face, lest he should wake up.

"Leave him alone," said Mary Hendrikhovna, smiling timidly and happily. "He is sleeping well as it is, after a sleepless night."

"Oh, no, Mary Hendrikhovna," replied the officer, "one must look after the doctor. Perhaps he'll take pity on me someday, when it comes to cutting off a leg or an arm for me."

There were only three tumblers, the water was so muddy that one could not make out whether the tea was strong or weak, and the samovar held only six tumblers of water, but this made it all the pleasanter to take turns in order of seniority to receive one's tumbler from Mary Hendrikhovna's plump little hands with their short and not overclean nails. All the officers appeared to be, and really were, in love with her that evening. Even those playing cards behind the partition soon left their game and came over to the samovar, yielding to the general mood of courting Mary Hendrikhovna. She, seeing herself surrounded by such brilliant and polite young men, beamed with satisfaction, try as she might to hide it, and perturbed as she evidently was each time her husband moved in his sleep behind her.

There was only one spoon, sugar was more plentiful than anything else, but it took too long to dissolve, so it was decided that Mary Hendrikhovna should stir the sugar for everyone in turn. Rostov received his tumbler, and adding some rum to it asked Mary Hendrikhovna to stir it.

"But you take it without sugar?" she said, smiling all the time, as if everything she said and everything the others said was very amusing and had a double meaning.

"It is not the sugar I want, but only that your little hand should stir my tea."

Mary Hendrikhovna assented and began looking for the spoon which someone meanwhile had pounced on.

"Use your finger, Mary Hendrikhovna, it will be still nicer," said Rostov.

"Too hot!" she replied,
blushing with pleasure.

Ilyin put a few drops of rum into the bucket of water and brought it to Mary Hendrikhovna, asking her to stir it with her finger.

"This is my cup," said he. "Only dip your finger in it and I'll drink it all up."

When they had emptied the samovar, Rostov took a pack of cards and proposed that they should play "Kings" with Mary Hendrikhovna. They drew lots to settle who should make up her set. At Rostov's suggestion it was agreed that whoever became "King" should have the right to kiss Mary Hendrikhovna's hand, and that the "Booby" should go to refill and reheat the samovar for the doctor when the latter awoke.

"Well, but supposing Mary Hendrikhovna is 'King'?" asked Ilyin.

"As it is, she is Queen, and her word is law!"

They had hardly begun to play before the doctor's disheveled head suddenly appeared from behind Mary Hendrikhovna. He had been awake for some time, listening to what was being said, and evidently found nothing entertaining or amusing in what
was going on. His face was sad
and depressed. Without greeting the officers, he scratched himself and asked to be allowed to pass as they were blocking the way. As soon as he had left the room all the officers burst into loud laughter and Mary Hendrikhovna blushed till her eyes filled with tears and thereby became still more attractive to them. Returning from the yard, the doctor told his wife (who had ceased to smile so happily, and looked at him in alarm, awaiting her sentence) that the rain had ceased and they must go to sleep in their covered cart, or everything in it would be stolen.

"But I'll send an orderly.... Two of them!" said Rostov. "What an idea, doctor!"

"I'll stand guard on it myself!" said Ilyin.

"No, gentlemen, you have had your sleep, but I have not slept for two nights," replied the doctor, and he sat down morosely beside his

wife, waiting for the game to end.

Seeing his gloomy face as he frowned at his wife, the officers grew still merrier, and some of them could not refrain from laughter, for which they hurriedly sought plausible pretexts. When he had gone, taking his wife with him, and had settled down with her in their covered cart, the officers lay down in the tavern, covering themselves with their wet cloaks, but they did not sleep for a long time; now they exchanged remarks, recalling the doctor's uneasiness and his wife's delight, now they ran out into the porch and reported what was taking place in the covered trap. Several times Rostov, covering his head, tried to go to sleep, but some remark would arouse him and conversation would be resumed, to the accompaniment of unreasoning, merry, childlike laughter.

CHAPTER XIV

It was nearly three o'clock but no one was yet asleep, when the quartermaster appeared with an order to move on to the little town of Ostrovna. Still laughing and talking, the officers began hurriedly getting ready and again boiled some muddy water in the samovar. But Rostov went off to his squadron without waiting for tea. Day was breaking, the rain had ceased, and the clouds were dispersing. It felt damp and cold, especially in clothes that were still moist. As they left the tavern in the twilight of the dawn, Rostov and Ilyin both glanced under the wet and glistening leather hood of the doctor's cart, from under the apron of which his feet were sticking out, and in the middle of which his wife's nightcap was visible and her sleepy breathing audible.

"She really is a dear little thing," said Rostov to Ilyin, who was following him.

"A charming woman!" said Ilyin, with all the gravity of a boy of sixteen.

Half an hour later the squadron was lined up on the road. The command was heard to "mount" and the soldiers crossed themselves and mounted. Rostov riding in front gave the order "Forward!" and the hussars, with clanking sabers and subdued talk, their horses' hoofs splashing in the mud, defiled in fours and moved along the broad

road planted with birch trees on each side, following the infantry and a battery that had gone on in front.

Tattered, blue-purple clouds, reddening in the east, were scudding before the wind. It was growing lighter and lighter. That curly grass which always grows by country roadsides became clearly visible, still wet with the night's rain; the drooping branches of the birches, also wet, swayed in the wind and flung down bright drops of water to one side. The soldiers' faces were more and more clearly visible. Rostov, always closely followed by Ilyin, rode along the side of the road between two rows of birch trees.

When campaigning, Rostov allowed himself the indulgence of riding not a regimental but a Cossack horse. A judge of horses and a sportsman, he had lately procured himself a large, fine, mettlesome, Donets horse, dun-colored, with light mane and tail, and when he rode it no one could outgallop him. To ride this horse was a pleasure to him, and he thought of the horse, of the morning, of the doctor's wife, but not once of the impending danger.

Formerly, when going into action, Rostov had felt afraid; now he had not the least feeling of fear. He was fearless, not because he had grown used to being under fire (one cannot grow used to danger), but because he had learned how to manage his thoughts when in danger. He had grown accustomed when going into action to think about anything but what would seem most likely to interest him--the impending danger. During the first period of his service, hard as he tried and much as he reproached himself with cowardice, he had not been able to do this, but with time it had come of itself. Now he rode beside Ilyin under the birch trees, occasionally plucking leaves from a branch that met his hand, sometimes touching his horse's side with his foot, or, without turning round, handing a pipe he had finished to an hussar riding behind him, with as calm and careless an air as though he were merely out for a ride. He glanced with pity at the excited face of Ilyin, who talked much and in great agitation. He knew from experience the tormenting expectation of terror and death the cornet was suffering and knew that only time could help him.

As soon as the sun appeared in a clear strip of sky beneath the clouds, the wind fell, as if it dared not spoil the beauty of the summer morning after the storm; drops still continued to fall, but vertically now, and all was still. The whole sun appeared on the horizon and disappeared behind a long narrow cloud that hung above it. A few minutes later it reappeared brighter still from behind the top of the cloud, tearing its edge. Everything grew bright and

glittered. And with that light, and as if in reply to it, came the sound of guns ahead of them.

Before Rostov had had time to consider and determine the distance of that firing, Count Ostermann-Tolstoy's adjutant came galloping from Vitebsk with orders to advance at a trot along the road.

The squadron overtook and passed the infantry and the battery--which had also quickened their pace--rode down a hill, and passing through an empty and deserted village again ascended. The horses began to lather and the men to flush.

"Halt! Dress your ranks!" the order of the regimental commander was heard ahead. "Forward by the left. Walk, march!" came the order from in front.

And the hussars, passing along the line of troops on the left flank of our position, halted behind our Uhlans who were in the front line. To the right stood our infantry in a dense column: they were the reserve. Higher up the hill, on the very horizon, our guns were visible through the wonderfully clear air, brightly illuminated by slanting morning sunbeams. In front, beyond a hollow dale, could be seen the enemy's columns and guns. Our advanced line, already in action, could be heard briskly exchanging shots with the enemy in the dale.

At these sounds, long unheard, Rostov's spirits rose, as at the strains of the merriest music. Trap-ta-ta-tap! cracked the shots, now together, now several quickly one after another. Again all was silent and then again it sounded as if someone were walking on detonators and exploding them.

The hussars remained in the same place for about an hour. A cannonade began. Count Ostermann with his suite rode up behind the squadron, halted, spoke to the commander of the regiment, and rode up the hill to the guns.

After Ostermann had gone, a command rang out to the Uhlans.

"Form column! Prepare to charge!"

The infantry in front of them parted into platoons to allow the cavalry to pass. The Uhlans started, the streamers on their spears fluttering, and trotted downhill toward the French cavalry which was seen below to the left.

As soon as the Uhlans descended the hill, the hussars were ordered up the hill to support the battery. As they took the places vacated by the Uhlans, bullets came from the front, whining and whistling, but fell spent without taking effect.

The sounds, which he had not heard for so long, had an even more pleasurable and exhilarating effect on Rostov than the previous sounds of firing. Drawing himself up, he viewed the field of battle opening out before him from the hill, and with his whole soul followed the movement of the Uhlans. They swooped down close to the French dragoons, something confused happened there amid the smoke, and five minutes later our Uhlans were galloping back, not to the place they had occupied but more to the left, and among the orange-colored Uhlans on chestnut horses and behind them, in a large group, blue French dragoons on gray horses could be seen.

CHAPTER XV

Rostov, with his keen sportsman's eye, was one of the first to catch sight of these blue French dragoons pursuing our Uhlans. Nearer and nearer in disorderly crowds came the Uhlans and the French dragoons pursuing them. He could already see how these men, who looked so small at the foot of the hill, jostled and overtook one another, waving their arms and their sabers in the air.

Rostov gazed at what was happening before him as at a hunt. He felt instinctively that if the hussars struck at the French dragoons now, the latter could not withstand them, but if a charge was to be made it must be done now, at that very moment, or it would be too late. He looked around. A captain, standing beside him, was gazing like himself with eyes fixed on the cavalry below them.

"Andrew Sevastyanych!" said Rostov. "You know, we could crush them...."

"A fine thing too!" replied the captain, "and really..."

Rostov, without waiting to hear him out, touched his horse, galloped to the front of his squadron, and before he had time to finish giving the word of command, the whole squadron, sharing his feeling, was following him. Rostov himself did not know how or why he did it.

He acted as he did when hunting, without reflecting or considering. He saw the dragoons near and that they were galloping in disorder; he knew they could not withstand an attack--knew there was only that moment and that if he let it slip it would not return.

The bullets were whining and whistling so stimulatingly around him and his horse was so eager to go that he could not restrain himself. He touched his horse, gave the word of command, and immediately, hearing behind him the tramp of the horses of his deployed squadron, rode at full trot downhill toward the dragoons. Hardly had they reached the bottom of the hill before their pace instinctively changed to a gallop, which grew faster and faster as they drew nearer to our Uhlans and the French dragoons who galloped after them. The dragoons were now close at hand. On seeing the hussars, the foremost began to turn, while those behind began to halt. With the same feeling with which he had galloped across the path of a wolf, Rostov gave rein to his Donets horse and galloped to intersect the path of the dragoons' disordered lines. One Uhlan stopped, another who was on foot flung himself to the ground to avoid being knocked over, and a riderless horse fell in among the hussars. Nearly all the French dragoons were galloping back. Rostov, picking out one on a gray horse, dashed after him. On the way he came upon a bush, his gallant horse cleared it, and almost before he had righted himself in his saddle he saw that he would immediately overtake the enemy he had selected. That Frenchman, by his uniform an officer, was going at a gallop, crouching on his gray horse and urging it on with his saber. In another moment Rostov's horse dashed its breast against the hindquarters of the officer's horse, almost knocking it over, and at the same instant Rostov, without knowing why, raised his saber and struck the Frenchman with it.

The instant he had done this, all Rostov's animation vanished. The officer fell, not so much from the blow--which had but slightly cut his arm above the elbow--as from the shock to his horse and from fright. Rostov reined in his horse, and his eyes sought his foe to see whom he had vanquished. The French dragoon officer was hopping with one foot on the ground, the other being caught in the stirrup. His eyes, screwed up with fear as if he every moment expected another blow, gazed up at Rostov with shrinking terror. His pale and mud-stained face--fair and young, with a dimple in the chin and light-blue eyes--was not an enemy's face at all suited to a battlefield, but a most ordinary, homelike face. Before Rostov had decided what to do with him, the officer cried, "I surrender!" He hurriedly but vainly tried to get his foot out of the stirrup and did not remove his frightened blue eyes from Rostov's face. Some hussars who galloped up disengaged his foot and helped him into the

saddle. On all sides, the hussars were busy with the dragoons; one was wounded, but though his face was bleeding, he would not give up his horse; another was perched up behind an hussar with his arms round him; a third was being helped by an hussar to mount his horse. In front, the French infantry were firing as they ran. The hussars galloped hastily back with their
prisoners. Rostov galloped back
with the rest, aware of an unpleasant feeling of depression in his heart. Something vague and confused, which he could not at all account for, had come over him with the capture of that officer and the blow he had dealt him.

Count Ostermann-Tolstoy met the returning hussars, sent for Rostov, thanked him, and said he would report his gallant deed to the Emperor and would recommend him for a St. George's Cross. When sent for by Count Ostermann, Rostov, remembering that he had charged without orders, felt sure his commander was sending for him to punish him for breach of discipline. Ostermann's flattering words and promise of a reward should therefore have struck him all the more pleasantly, but he still felt that same vaguely disagreeable feeling of moral nausea. "But what on earth is worrying me?" he asked himself as he rode back from the general. "Ilyin? No, he's safe. Have I disgraced myself in any way? No, that's not it." Something else, resembling remorse,
tormented him. "Yes, oh yes, that French
officer with the dimple. And I remember how my arm paused when I raised it."

Rostov saw the prisoners being led away and galloped after them to have a look at his Frenchman with the dimple on his chin. He was sitting in his foreign uniform on an hussar packhorse and looked anxiously about him; The sword cut on his arm could scarcely be called a wound. He glanced at Rostov with a feigned smile and waved his hand in greeting. Rostov still had the same indefinite feeling, as of shame.

All that day and the next his friends and comrades noticed that Rostov, without being dull or angry, was silent, thoughtful, and preoccupied. He drank reluctantly, tried to remain alone, and kept turning something over in his mind.

Rostov was always thinking about that brilliant exploit of his, which to his amazement had gained him the St. George's Cross and even given him a reputation for bravery, and there was something he could not at all understand. "So
others are even more afraid than I
am!" he thought. "So that's all there is in what is called heroism! And heroism! And did I do it for my country's sake? And how was he

to blame, with his dimple and blue eyes? And how frightened he was! He thought that I should kill him. Why should I kill him? My hand trembled. And they have given me a St. George's Cross.... I can't make it out at all."

But while Nicholas was considering these questions and still could reach no clear solution of what puzzled him so, the wheel of fortune in the service, as often happens, turned in his favor. After the affair at Ostrovna he was brought into notice, received command of an hussar battalion, and when a brave officer was needed he was chosen.

CHAPTER XVI

On receiving news of Natasha's illness, the countess, though not quite well yet and still weak, went to Moscow with Petya and the rest of the household, and the whole family moved from Marya Dmitrievna's house to their own and settled down in town.

Natasha's illness was so serious that, fortunately for her and for her parents, the consideration of all that had caused the illness, her conduct and the breaking off of her engagement, receded into the background. She was so ill that it was impossible for them to consider in how far she was to blame for what had happened. She could not eat or sleep, grew visibly thinner, coughed, and, as the doctors made them feel, was in danger. They could not think of anything but how to help her. Doctors came to see her singly and in consultation, talked much in French, German, and Latin, blamed one another, and prescribed a great variety of medicines for all the diseases known to them, but the simple idea never occurred to any of them that they could not know the disease Natasha was suffering from, as no disease suffered by a live man can be known, for every living person has his own peculiarities and always has his own peculiar, personal, novel, complicated disease, unknown to medicine--not a disease of the lungs, liver, skin, heart, nerves, and so on mentioned in medical books, but a disease consisting of one of the innumerable combinations of the maladies of those organs. This simple thought could not occur to the doctors (as it cannot occur to a wizard that he is unable to work his charms) because the business of their lives was to cure, and they received money for it and had spent the best years of their lives on that business. But, above all, that thought was kept out of

their minds by the fact that they saw they were really useful, as in fact they were to the whole Rostov family. Their usefulness did not depend on making the patient swallow substances for the most part harmful (the harm was scarcely perceptible, as they were given in small doses), but they were useful, necessary, and indispensable because they satisfied a mental need of the invalid and of those who loved her--and that is why there are, and always will be, pseudo-healers, wise women, homeopaths, and allopaths. They satisfied that eternal human need for hope of relief, for sympathy, and that something should be done, which is felt by those who are suffering. They satisfied the need seen in its most elementary form in a child, when it wants to have a place rubbed that has been hurt. A child knocks itself and runs at once to the arms of its mother or nurse to have the aching spot rubbed or kissed, and it feels better when this is done. The child cannot believe that the strongest and wisest of its people have no remedy for its pain, and the hope of relief and the expression of its mother's sympathy while she rubs the bump comforts it. The doctors were of use to Natasha because they kissed and rubbed her bump, assuring her that it would soon pass if only the coachman went to the chemist's in the Arbat and got a powder and some pills in a pretty box of a ruble and seventy kopeks, and if she took those powders in boiled water at intervals of precisely two hours, neither more nor less.

What would Sonya and the count and countess have done, how would they have looked, if nothing had been done, if there had not been those pills to give by the clock, the warm drinks, the chicken cutlets, and all the other details of life ordered by the doctors, the carrying out of which supplied an occupation and consolation to the family circle? How would the count have borne his dearly loved daughter's illness had he not known that it was costing him a thousand rubles, and that he would not grudge thousands more to benefit her, or had he not known that if her illness continued he would not grudge yet other thousands and would take her abroad for consultations there, and had he not been able to explain the details of how Metivier and Feller had not understood the symptoms, but Frise had, and Mudrov had diagnosed them even better? What would the countess have done had she not been able sometimes to scold the invalid for not strictly obeying the doctor's orders?

"You'll never get well like that," she would say, forgetting her grief in her vexation, "if you won't obey the doctor and take your medicine at the right time! You mustn't trifle with it, you know, or it may turn to pneumonia," she would go on, deriving much comfort from the utterance of that foreign word, incomprehensible to others as well

as to herself.

What would Sonya have done without the glad consciousness that she had not undressed during the first three nights, in order to be ready to carry out all the doctor's injunctions with precision, and that she still kept awake at night so as not to miss the proper time when the slightly harmful pills in the little gilt box had to be administered? Even to Natasha herself it was pleasant to see that so many sacrifices were being made for her sake, and to know that she had to take medicine at certain hours, though she declared that no medicine would cure her and that it was all nonsense. And it was even pleasant to be able to show, by disregarding the orders, that she did
not believe in medical treatment and did not value her life.

The doctor came every day, felt her pulse, looked at her tongue, and regardless of her grief-stricken face joked with her. But when he had gone into another room, to which the countess hurriedly followed him, he assumed a grave air and thoughtfully shaking his head said that though there was danger, he had hopes of the effect of this last medicine and one must wait and see, that the malady was chiefly mental, but... And the countess, trying to conceal the action from herself and from him, slipped a gold coin into his hand and always returned to the patient with a more tranquil mind.

The symptoms of Natasha's illness were that she ate little, slept little, coughed, and was always low-spirited. The doctors said that she could not get on without medical treatment, so they kept her in the stifling atmosphere of the town, and the Rostovs did not move to the country that summer of 1812.

In spite of the many pills she swallowed
and the drops and powders
out of the little bottles and boxes of which Madame Schoss who was fond of such things made a large collection, and in spite of being deprived of the country life to which she was accustomed, youth prevailed. Natasha's grief began to be overlaid by the impressions of daily life, it ceased to press so painfully on her heart, it gradually faded into the past, and she began to recover physically.

CHAPTER XVII

Natasha was calmer but no happier. She not merely avoided all

external forms of pleasure--balls, promenades, concerts, and theaters-but she never laughed without a sound of tears in her laughter. She could not sing. As soon as she began to laugh, or tried to sing by herself, tears choked her: tears of remorse, tears at the recollection of those pure times which could never return, tears of vexation that she should so uselessly have ruined her young life which might have been so happy. Laughter and singing in particular seemed to her like a blasphemy,

in face of her sorrow. Without any need of self-restraint, no wish to coquet ever entered her head. She said and felt at that time that no man was more to her than Nastasya Ivanovna, the buffoon. Something stood sentinel within her and forbade her every joy. Besides, she had lost all the old interests of her carefree girlish life that had been so full of hope. The previous autumn, the hunting, "Uncle," and the Christmas holidays spent with Nicholas at Otradnoe were what she recalled oftenest and most painfully. What would she not have given to bring back even a single day of that time! But it was gone forever. Her presentiment at the time had not deceived her--that that state of freedom and readiness for any enjoyment would not return again. Yet it was necessary to live on.

It comforted her to reflect that she was not better as she had formerly imagined, but worse, much worse, than anybody else in the world. But this was not enough. She knew that, and asked herself, "What next?"

But there was nothing to come. There was no joy in life, yet life was passing. Natasha apparently tried not to be a burden or a hindrance to anyone, but wanted nothing for herself. She kept away from everyone in the house and felt at ease only with her brother Petya. She liked to be with him better than with the others, and when alone with him she sometimes laughed. She hardly ever left the house and of those who came to see them was glad to see only one person, Pierre. It would have been impossible to treat her with more delicacy, greater care, and at the same time more seriously than did Count Bezukhov. Natasha unconsciously felt this delicacy and so found great pleasure in his society. But she was not even grateful to him for it; nothing good on Pierre's part seemed to her to be an effort, it seemed so natural for him to be kind to everyone that there was no merit in his kindness. Sometimes Natasha noticed embarrassment and awkwardness on his part in her presence, especially when

he wanted to do something to please her, or feared that something they spoke of would awaken memories distressing to her. She noticed this and attributed it to his general kindness and shyness, which she imagined must be the same toward everyone as it was to her. After those involuntary words--that if he were free he would have asked on his knees for her hand and her love--uttered at a moment

when she was so strongly agitated, Pierre never spoke to Natasha of his feelings; and it seemed plain to her that those words, which had then so comforted her, were spoken as all sorts of meaningless words are spoken to comfort a crying child. It was not because Pierre was a married man, but because Natasha felt very strongly with him that moral barrier the absence of which she had experienced with Kuragin that it never entered her head that the relations between him and herself could lead to love on her part, still less on his, or even to the kind of tender, self-conscious, romantic friendship between a
man and a woman of which she had known several instances.

Before the end of the fast of St. Peter, Agrafena Ivanovna Belova, a country neighbor of the Rostovs, came to Moscow to pay her devotions at the shrines of the Moscow saints. She suggested that Natasha should fast and prepare for Holy Communion, and Natasha gladly welcomed the idea. Despite the doctor's orders that she should not go out early in the morning, Natasha insisted on fasting and preparing for the sacrament, not as they generally prepared for it in the Rostov family by attending three services in their own house, but as Agrafena Ivanovna did, by going to church every day for a week and not once missing Vespers, Matins, or Mass.

The countess was pleased with Natasha's zeal; after the poor results of the medical treatment, in the depths of her heart she hoped that prayer might help her daughter more than medicines and, though not without fear and concealing it from the doctor, she agreed to Natasha's wish and entrusted
her to Belova. Agrafena Ivanovna used to come to wake Natasha at three in the morning, but generally found her already awake. She was afraid of being late for Matins. Hastily washing, and meekly putting on her shabbiest dress and an old mantilla, Natasha, shivering in the fresh air, went out into the deserted streets lit by the clear light of dawn. By Agrafena Ivanovna's advice Natasha prepared herself not in their own parish, but at a church where, according to the devout Agrafena Ivanovna, the priest was a man of very severe and lofty life. There were never many people in the church; Natasha always stood beside Belova in the customary place before an icon of the Blessed Virgin, let into the screen before the choir on the left side, and a feeling, new to her, of humility before something great and incomprehensible, seized her when at that unusual morning hour, gazing at the dark face of the Virgin illuminated by the candles burning before it and by the morning light falling from
the window, she listened to the words of the service which she tried to follow with understanding. When she understood them her personal feeling became interwoven in the prayers with shades of its own. When she did not understand, it was

sweeter still to think that the wish to understand everything is pride, that it is impossible to understand all, that it is only necessary to believe and to commit oneself to God, whom she felt guiding her soul at those moments. She crossed herself, bowed low, and when she did not understand, in horror at her own vileness, simply asked God to forgive her everything, everything, to have mercy upon her. The prayers to which she surrendered herself most of all were those of repentance. On her way home at an early hour when she met no one but bricklayers going to work or men sweeping the street, and everybody within the houses was still asleep, Natasha experienced a feeling new to her, a sense of the possibility of correcting her faults, the possibility of a new, clean life, and of happiness.

During the whole week she spent in this way, that feeling grew every day. And the happiness of taking communion, or "communing" as Agrafena Ivanovna, joyously playing with the word, called it, seemed to Natasha so great that she felt she should never live till that blessed Sunday.

But the happy day came, and on that memorable Sunday, when, dressed in white muslin, she returned home after communion, for the first time for many months she felt calm and not oppressed by the thought of the life that lay before her.

The doctor who came to see her that day ordered her to continue the powders he had prescribed a fortnight previously.

"She must certainly go on taking them morning and evening," said he, evidently sincerely satisfied with his success. "Only, please be particular about it.

"Be quite easy," he continued playfully, as he adroitly took the gold coin in his palm. "She will soon be singing and frolicking about. The last medicine has done her a very great deal of good. She has freshened up very much."

The countess, with a cheerful expression on her face, looked down at her nails and spat a little for luck as she returned to the drawing room.

CHAPTER XVIII

At the beginning of July more and more disquieting reports about the war began to spread in Moscow; people spoke of an appeal by the Emperor to the people, and of his coming himself from the army to Moscow. And as up to the eleventh of July no manifesto or appeal had been received, exaggerated reports became current about them and about the position of Russia. It was said that the Emperor was leaving the army because it was in danger, it was said that Smolensk had surrendered, that Napoleon had an army of a million and only a miracle could save Russia.

On the eleventh of July, which was Saturday, the manifesto was received but was not yet in print, and Pierre, who was at the Rostovs', promised to come to dinner next day, Sunday, and bring a copy of the manifesto
and appeal, which he would obtain from Count
Rostopchin.

That Sunday, the Rostovs went to Mass at the Razumovskis' private chapel as usual. It was a hot July day. Even at ten o'clock, when the Rostovs got out of their carriage at the chapel, the sultry air, the shouts of hawkers, the light and gay summer clothes of the crowd, the dusty leaves of the trees on the boulevard, the sounds of the band and the white trousers of a battalion marching to parade, the rattling of wheels on the cobblestones, and the brilliant, hot sunshine were all full of that summer languor, that content and discontent with the present, which is most strongly felt on a bright, hot day in town. All the Moscow notabilities, all the Rostovs' acquaintances, were at the Razumovskis' chapel, for, as if expecting something to happen, many wealthy families who usually left town for their country estates had not gone away that summer. As Natasha, at her mother's side, passed through the crowd behind a liveried footman
who cleared the way for them, she heard a young man speaking about her in too loud a whisper.

"That's Rostova, the one who..."

"She's much thinner, but all the same she's pretty!"

She heard, or thought she heard, the names of Kuragin and Bolkonski. But she was always imagining that. It always seemed to her that everyone who looked at her was thinking only of what had happened to her. With a sinking heart, wretched as she always was now when she found herself in a crowd, Natasha in her lilac silk dress trimmed with black lace walked--as women can walk--with the more repose and stateliness the greater the pain and shame in her soul. She knew for certain that she was pretty, but this no longer gave her satisfaction as it used to. On the contrary it tormented her more than

anything else of late, and particularly so on this bright, hot summer day in town. "It's Sunday again--another week past," she thought, recalling that she had been here the Sunday before, "and always the same life that
is no life, and the same surroundings in
which it used to be so easy to live. I'm pretty, I'm young, and I know that now I am good. I used to be bad, but now I know I am good," she thought, "but yet my best years are slipping by and are no good to anyone." She stood by her mother's side and exchanged nods with acquaintances near her. From habit she scrutinized the ladies' dresses, condemned the bearing of a lady standing close by who was not crossing herself properly but in a cramped manner, and again she thought with vexation that she was herself being judged and was judging others, and suddenly, at the sound of the service, she felt horrified at her own vileness, horrified that the former purity of her soul was again lost to her.

A comely, fresh-looking old man was conducting the service with that mild solemnity which has so elevating and soothing an effect on the souls of the worshipers. The gates of the sanctuary screen were closed, the curtain was slowly drawn, and from behind
it a soft
mysterious voice pronounced some words. Tears, the cause of which she herself did not understand, made Natasha's breast heave, and a joyous but oppressive feeling agitated her.

"Teach me what I should do, how to live my life, how I may grow good forever, forever!" she pleaded.

The deacon came out onto the raised space before the altar screen and, holding his thumb extended, drew his long hair from under his dalmatic and, making the sign of the cross on his breast, began in a loud and solemn voice to recite the words of the prayer...

"In peace let us pray unto the Lord."

"As one community, without distinction of class, without enmity, united by brotherly love--let us pray!" thought Natasha.

"For the peace that is from above, and for the salvation of our souls."

"For the world of angels and all the spirits who dwell above us," prayed Natasha.

When they prayed for the warriors, she thought of her brother and Denisov. When they prayed for all traveling by land and sea, she remembered

Prince Andrew, prayed for him, and asked God to forgive her all the wrongs she had done him. When they prayed for those who love us, she prayed for the members of her own family, her father and mother and Sonya, realizing for the first time how wrongly she had acted toward them, and feeling all the strength of her love for them. When they prayed for those who hate us, she tried to think of her enemies and people who hated her, in order to pray for them. She included among her enemies the creditors and all who had business dealings with her father, and always at the thought of enemies and those who hated her she remembered Anatole who had done her so much harm--and though he did not hate her she gladly prayed for him as for an enemy. Only at prayer did she feel able to think clearly and calmly of Prince Andrew and Anatole, as men for whom her feelings were as nothing compared with her awe and devotion to God. When they prayed for the Imperial family and the Synod, she bowed very low and made the sign of the cross, saying to herself that even if she did not understand, still she could not doubt, and at any rate loved the governing Synod and prayed for it.

When he had finished the Litany the deacon crossed the stole over his breast and said, "Let us commit ourselves and our whole lives to Christ the Lord!"

"Commit ourselves to God," Natasha inwardly repeated. "Lord God, I submit myself to Thy will!" she thought. "I want nothing, wish for nothing; teach me what to do and how to use my will! Take me, take me!" prayed Natasha, with impatient emotion in her heart, not crossing herself but letting her slender arms hang down as if expecting some invisible power at any moment to take her and deliver her from herself, from her regrets, desires, remorse, hopes, and sins.

The countess looked round several times at her daughter's softened face and shining eyes and prayed God to help her.

Unexpectedly, in the middle of the service, and not in the usual order Natasha knew so well, the deacon brought out a small stool, the one he knelt on when praying on Trinity Sunday, and placed it before the doors of the sanctuary screen. The priest came out with his purple velvet biretta on his head, adjusted his hair, and knelt down with an effort. Everybody followed his example and they looked at one another in surprise. Then came the prayer just received from the Synod--a prayer for the deliverance of Russia from hostile invasion.

"Lord God of might, God of our salvation!" began the priest in that voice, clear, not grandiloquent but mild, in which only the Slav clergy read and which acts so irresistibly on a Russian heart.

"Lord God of might, God of our salvation! Look this day in mercy and blessing on Thy humble people, and graciously hear us, spare us, and have mercy upon us! This foe confounding Thy land, desiring to lay waste the whole world, rises against us; these lawless men are gathered together to overthrow Thy kingdom, to destroy Thy dear Jerusalem,
Thy beloved Russia; to defile Thy temples, to overthrow
Thine altars, and to desecrate our holy shrines. How long, O Lord, how long shall the wicked triumph? How long shall they wield unlawful power?

"Lord God! Hear us when we pray to Thee; strengthen with Thy might our most gracious sovereign lord, the Emperor Alexander Pavlovich; be mindful of his uprightness and meekness, reward him according to his righteousness, and let it preserve us, Thy chosen Israel! Bless his counsels, his undertakings, and his work; strengthen his kingdom by Thine almighty hand, and give him victory over his enemy, even as Thou gavest Moses the victory over Amalek, Gideon over Midian, and David over Goliath. Preserve his army, put a bow of brass in the hands of those who have armed themselves in Thy Name, and gird their loins with strength for the fight. Take up the spear and shield and arise to help us; confound and put to shame those who have devised evil against us, may they be before the faces of
Thy faithful warriors as dust
before the wind, and may Thy mighty Angel confound them and put them to flight; may they be ensnared when they know it not, and may the plots they have laid in secret be turned against them; let them fall before Thy servants' feet and be laid low by our hosts! Lord, Thou art able to save both great and small; Thou art God, and man cannot prevail against Thee!

"God of our fathers! Remember Thy bounteous mercy and loving-kindness which are from of old; turn not Thy face from us, but be gracious to our unworthiness, and in Thy great goodness and Thy many mercies regard not our transgressions and iniquities! Create in us a clean heart and renew a right spirit within us, strengthen us all in Thy faith, fortify our hope, inspire us with true love one for another, arm us with unity of spirit in the righteous defense of the heritage Thou gavest to us and to our fathers, and let not the scepter of the wicked be exalted against the destiny of those Thou hast sanctified.

"O
Lord our God, in whom we believe and in whom we put our trust, let us not be confounded in our hope of Thy mercy, and give us a token of Thy blessing, that those who hate us and our Orthodox faith may see it and be put to shame and perish, and may all the nations know that

Thou art the Lord and we are Thy people. Show Thy mercy upon us this day, O Lord, and grant us Thy salvation; make the hearts of Thy servants to rejoice in Thy mercy; smite down our enemies and destroy them swiftly beneath the feet of Thy faithful servants! For Thou art the defense, the succor, and the victory of them that put their trust in Thee, and to Thee be all glory, to Father, Son, and Holy Ghost, now and forever, world without end. Amen."

In Natasha's receptive condition of soul this prayer affected her strongly. She listened to every word about the victory of Moses over Amalek, of Gideon over Midian, and of David over Goliath, and about the destruction of "Thy Jerusalem," and she prayed to God with the tenderness and emotion with which her heart was overflowing, but without fully understanding what she was asking of God in that prayer. She shared with all her heart in the prayer for the spirit of righteousness, for the strengthening of the heart by faith and hope, and its animation by love. But she could not pray that her enemies might be trampled under foot when but a few minutes before she had been wishing she had more of them that she might pray for them. But neither could she doubt the righteousness of the prayer that was being read on bended knees. She felt in her heart a devout and tremulous awe at the thought of the punishment that overtakes men for their sins, and especially of her own sins, and she prayed to God to forgive them all, and her too, and to give them all, and her too, peace and happiness. And it seemed to her that God heard her prayer.

CHAPTER XIX

From the day when Pierre, after leaving the Rostovs' with Natasha's grateful look fresh in his mind, had gazed at the comet that seemed to be fixed in the sky and felt that something new was appearing on his own horizon--from that day the problem of the vanity and uselessness of all earthly things, that had incessantly tormented him, no longer presented itself. That terrible question "Why?" "Wherefore?" which had come to him amid every occupation, was now replaced, not by another question or by a reply to the former question, but by her image. When he listened to, or himself took part in, trivial conversations, when he read or heard of human baseness or folly, he was not horrified as formerly, and did not ask himself why men struggled so about these things when all is so transient and incomprehensible--but he remembered her as he had last

seen her, and all his doubts vanished--not because she had answered the questions that had haunted him, but because his conception of her transferred him instantly to another, a brighter, realm of spiritual activity in which no one could be justified or guilty--a realm of beauty and love which it was worth living for. Whatever worldly baseness presented itself to him, he said to himself:

"Well, supposing N. N. swindled the country and the Tsar, and the country and the Tsar confer honors upon him, what does that matter? She smiled at me yesterday and asked me to come again, and I love her, and no one will ever know it." And his soul felt calm and peaceful.

Pierre still went into society, drank as much and led the same idle and dissipated life, because besides the hours he spent at the Rostovs' there were other hours he had to spend somehow, and the habits and acquaintances he had made in Moscow formed a current that bore him along irresistibly. But latterly, when more and more disquieting reports came from the seat of war and Natasha's health began to improve and she no longer aroused in him the former feeling of careful pity, an ever-increasing restlessness, which he could not explain, took possession of him. He felt that the condition he was in could not continue long, that a catastrophe was coming which would change his whole life, and he impatiently sought everywhere for signs of that approaching catastrophe. One of his brother Masons had revealed to Pierre the following prophecy concerning Napoleon, drawn from the Revelation of St. John.

In chapter 13, verse 18, of the Apocalypse, it is said:

Here is wisdom. Let him that hath understanding count the number of the beast: for it is the number of a man; and his number is Six hundred threescore and six.

And in the fifth verse of the same chapter:

And there was given unto him a mouth speaking great things and blasphemies; and power was given unto him to continue forty and two months.

The French alphabet, written out with the same numerical values as the Hebrew, in which the first nine letters denote units and the others tens, will have the following significance:

a b c d e f g h i k
1 2 3 4 5 6 7 8 9 10

l m n o p q r s
20 30 40 50 60 70 80 90
t u v w x y
100 110 120 130 140 150
z
160

Writing the words L'Empereur Napoleon in numbers, it appears that the sum of them is 666, and that Napoleon therefore the beast foretold in the Apocalypse. Moreover, by applying the same system to the words quarante-deux,* which was the term allowed to the beast that "spoke great things and blasphemies," the same number 666 was obtained; from which it followed that the limit fixed for Napoleon's power had come in the year 1812 when the French emperor was forty-two. This prophecy pleased Pierre very much and he often asked himself what would put an end to the power of the beast, that is, of Napoleon, and tried by the same system of using letters as numbers and adding them up, to find an answer to the question that engrossed him. He wrote the words L'Empereur Alexandre,

La nation russe and added up

their numbers, but the sums were either more or less than 666. Once when making such calculations he wrote down his own name in French, Comte Pierre Besouhoff, but the sum of the numbers did not come right. Then he changed the spelling, substituting a z for the s and adding de and the article le, still without obtaining the desired result. Then it occurred to him: if the answer to the question were contained in his name, his nationality would also be given in the answer. So he wrote Le russe Besuhof and adding up the numbers got 671. This was only five too much, and five was represented by e, the very letter elided from the article le before the word Empereur. By omitting the e, though incorrectly, Pierre got the answer he sought. L'russe Besuhof made 666. This discovery excited him. How, or by what means, he was connected with the great event foretold in the Apocalypse he did not know, but he did not doubt that connection for a moment. His love for Natasha,

Antichrist, Napoleon, the invasion, the comet,

666, L'Empereur Napoleon, and L'russe Besuhof--all this had to mature and culminate, to lift him out of that spellbound, petty sphere of Moscow habits in which he felt himself held captive and lead him to a great achievement and great happiness.

*Forty-two.

On the eve of the Sunday when the special prayer was read, Pierre had promised the Rostovs to bring them, from Count Rostopchin whom he knew well, both the appeal to the people and the news from the army. In the morning, when he went to call at Rostopchin's he met there a courier fresh from the army, an acquaintance of his own, who often danced at Moscow balls.

"Do, please, for heaven's sake, relieve me of something!" said the courier. "I have a sackful of letters to parents."

Among these letters was one from Nicholas Rostov to his father. Pierre took that letter, and Rostopchin also gave him the Emperor's appeal to Moscow, which had just been printed, the last army orders, and
his own most recent bulletin. Glancing through the army orders, Pierre found in one of them, in the lists of killed, wounded, and rewarded, the name of Nicholas Rostov, awarded a St. George's Cross of the Fourth Class for courage shown in the Ostrovna affair, and in the same order the name of Prince Andrew Bolkonski, appointed to the command of a regiment of Chasseurs. Though he did not want to remind the Rostovs of Bolkonski, Pierre could not refrain from making them happy by the news of their son's having received a decoration, so he sent that printed army order and Nicholas' letter to the Rostovs, keeping the appeal, the bulletin, and the other orders to take with him when he went to dinner.

His conversation with Count Rostopchin and the latter's tone of anxious hurry, the meeting with the courier who talked casually of how badly things were going in the army, the rumors of the discovery of spies in Moscow and of a leaflet in circulation stating that Napoleon promised to be in both
the Russian capitals by the autumn,
and the talk of the Emperor's being expected to arrive next day--all aroused with fresh force that feeling of agitation and expectation in Pierre which he had been conscious of ever since the appearance of the comet, and especially since the beginning of the war.

He had long been thinking of entering the army and would have done so had he not been hindered, first, by his membership of the Society of Freemasons to which he was bound by oath and which preached perpetual peace and the abolition of war, and secondly, by the fact that when he saw the great mass of Muscovites who had donned uniform and were talking patriotism, he somehow felt ashamed to take the step. But the chief reason for not carrying out his intention to enter the army lay in the vague idea that he was L'russe Besuhof who had the number of the beast, 666; that his part in the great affair of setting

a limit to the power of the beast that spoke great and blasphemous things had been predestined from eternity, and that therefore he ought not to undertake anything, but wait for what was bound to come to pass.

CHAPTER XX

A few intimate friends were dining with the Rostovs that day, as usual on Sundays.

Pierre came early so as to find them alone.

He had grown so stout this year that he would have been abnormal had he not been so tall, so broad of limb, and so strong that he carried his bulk with evident ease.

He went up the stairs, puffing and muttering something. His coachman did not even ask whether he was to wait. He knew that when his master was at the Rostovs' he stayed till midnight. The Rostovs' footman rushed eagerly forward to help him off with his cloak and take his hat and stick. Pierre, from club habit, always left both hat and stick in the anteroom.

The first person he saw in the house was Natasha. Even before he saw her, while taking off his cloak, he heard her. She was practicing solfa exercises in the music room. He knew that she had not sung since her illness, and so the sound of her voice surprised and delighted him. He opened the door softly and saw her, in the lilac dress she had worn at church, walking about the room singing. She had her back to him when he opened the door, but when, turning quickly, she saw his broad, surprised face, she blushed and came rapidly up to him.

"I want to try to sing again," she said, adding as if by way of excuse, "it is, at least, something to do."

"That's capital!"

"How glad I am you've come! I am so happy today," she said, with the old animation Pierre had not seen in her for along time. "You know Nicholas has received a St. George's Cross? I am so proud of him."

"Oh yes, I sent that announcement. But I don't want to interrupt you," he added, and was about to go to the drawing room.

Natasha stopped him.

"Count, is it wrong of me to sing?" she said blushing, and fixing her eyes inquiringly on him.

"No... Why should it be? On the contrary... But why do you ask me?"

"I don't know myself," Natasha answered quickly, "but I should not like to do anything you disapproved of. I believe in you completely. You don't know how important you are to me, how much you've done for me...." She spoke rapidly and did not notice how Pierre flushed at her words. "I saw in that same army order that he, Bolkonski" (she whispered the name hastily), "is in Russia, and in the army again. What do you think?"--she was speaking hurriedly, evidently afraid her strength might fail her--"Will he ever forgive me? Will he not always have a bitter feeling toward me? What do you think? What do you think?"

"I think..." Pierre replied, "that he has nothing to forgive.... If I were in his place..."

By association of ideas, Pierre was at once carried back to the day when, trying to comfort her, he had said that if he were not himself but the best man in the world and free, he would ask on his knees for her hand; and the same feeling of pity, tenderness, and love took possession of him and the same words rose to his lips. But she did not give him time to say them.

"Yes, you... you..." she said, uttering the word you rapturously- "that's a different thing. I know no one kinder, more generous, or better than you; nobody could be! Had you not been there then, and now too, I don't know what would have become of me, because..."

Tears suddenly rose in her eyes, she turned away, lifted her music before her eyes, began singing again, and again began walking up and down the room.

Just then Petya came running in from the drawing room.

Petya was now a handsome rosy lad of fifteen with full red lips and resembled Natasha. He was preparing to enter the university, but he and his friend Obolenski had lately, in secret, agreed to join the hussars.

Petya had come rushing out to talk to his namesake about this affair. He had asked Pierre to find out whether he would be accepted in the hussars.

Pierre walked up and down the drawing room, not listening to what Petya was saying.

Petya pulled
him by the arm to attract his attention.

"Well, what about my plan? Peter Kirilych, for heaven's sake! You are my only hope," said Petya.

"Oh yes, your plan. To join the hussars? I'll mention it, I'll bring it all up today."

"Well, mon cher, have you got the manifesto?" asked the old count. "The countess has been to Mass at the Razumovskis' and heard the new prayer. She says it's very fine."

"Yes, I've got it," said Pierre. "The Emperor is to be here tomorrow... there's to be an Extraordinary Meeting of the nobility, and they are talking of a levy of ten men per thousand. Oh yes, let me congratulate you!"

"Yes, yes, thank God! Well, and what news from the army?"

"We are again retreating. They say we're already near Smolensk," replied Pierre.

"O Lord, O Lord!" exclaimed the count. "Where is the manifesto?"

"The Emperor's appeal? Oh yes!"

Pierre began feeling in his pockets for the papers, but could not find them. Still slapping his pockets, he kissed the hand of the countess
who entered the room and glanced uneasily around, evidently expecting Natasha, who had left off singing but had not yet come into the drawing room.

"On my word, I don't know what I've done with it," he said.

"There he is, always losing everything!" remarked the countess.

Natasha entered with a softened and agitated expression of face and sat down looking silently at Pierre. As soon as she entered,

Pierre's features, which had been gloomy, suddenly lighted up, and while still searching for the papers he glanced at her several times.

"No, really! I'll drive home, I must have left them there. I'll certainly..."

"But you'll be late for dinner."

"Oh! And my coachman has gone."

But Sonya, who had gone to look for the papers in the anteroom, had found them in Pierre's hat, where he had carefully tucked them under the lining. Pierre was about to begin reading.

"No, after dinner," said the old count, evidently expecting much enjoyment from that reading.

At dinner, at which champagne
was drunk to the health of the new
chevalier of St. George, Shinshin told them the town news, of the illness of the old Georgian princess, of Metivier's disappearance from Moscow, and of how some German fellow had been brought to Rostopchin and accused of being a French "spyer" (so Count Rostopchin had told the story), and how Rostopchin let him go and assured the people that he was "not a spire at all, but only an old German ruin."

"People are being arrested..." said the count. "I've told the countess she should not speak French so much. It's not the time for it now."

"And have you heard?" Shinshin asked. "Prince Golitsyn has engaged a master to teach him Russian. It is becoming dangerous to speak French in the streets."

"And how about you, Count Peter Kirilych? If they call up the militia, you too will have to mount a horse," remarked the old count, addressing Pierre.

Pierre had been silent and preoccupied all through dinner, seeming not to grasp what was said. He looked at the count.

"Oh
yes, the war," he said. "No! What sort of warrior should I make? And yet everything is so strange, so strange! I can't make it out. I don't know, I am very far from having military tastes, but in these times no one can answer for himself."

After dinner the count settled himself comfortably in an easy

chair and with a serious face asked Sonya, who was considered an excellent reader, to read the appeal.

"To Moscow, our ancient Capital!

"The enemy has entered the borders of Russia with immense forces. He comes to despoil our beloved country,"

Sonya read painstakingly in her high-pitched voice. The count listened with closed eyes, heaving abrupt sighs at certain passages.

Natasha sat erect, gazing with a searching look now at her father and now at Pierre.

Pierre felt her eyes on him and tried not to look round. The countess shook her head disapprovingly and angrily at every solemn expression in the manifesto. In all these words she saw only that the danger threatening her son would not soon be over. Shinshin, with a sarcastic smile on his lips, was evidently preparing to make fun of anything that gave him the opportunity: Sonya's reading, any remark of the count's, or even the manifesto itself should no better pretext present itself.

After reading about the dangers that threatened Russia, the hopes the Emperor placed on Moscow and especially on its illustrious nobility, Sonya, with a quiver in her voice due chiefly to the attention that was being paid to her, read the last words:

"We ourselves will not delay to appear among our people in that Capital and in others parts of our realm for consultation, and for the direction of all our levies, both those now barring the enemy's path and those freshly formed to defeat him wherever he may appear. May the ruin he hopes to bring upon us recoil on his own head, and may Europe delivered from bondage glorify the name of Russia!"

"Yes, that's it!" cried the count, opening his moist eyes and sniffing repeatedly, as if a strong vinaigrette had been held to his nose; and he added, "Let the Emperor but say the word and we'll sacrifice everything and begrudge nothing."

Before Shinshin had time to utter the joke he was ready to make on the count's patriotism, Natasha jumped up from her place and ran to

her father.

"What a darling our Papa is!" she cried, kissing him, and she again looked at Pierre with the unconscious coquetry that had returned to her with her better spirits.

"There! Here's a patriot for you!" said Shinshin.

"Not a patriot at all, but simply..." Natasha replied in an injured tone. "Everything seems funny to you, but this isn't at all a joke...."

"A joke indeed!" put in the count. "Let him but say the word and we'll all go.... We're not Germans!"

"But did you notice, it says, 'for consultation'?" said Pierre.

"Never mind what it's for...."

At this moment, Petya, to whom nobody was paying any attention, came up to his father with a very flushed face and said in his breaking voice
that was now deep and now shrill:

"Well, Papa, I tell you definitely, and Mamma too, it's as you please, but I say definitely that you must let me enter the army, because I can't... that's all...."

The countess, in dismay, looked up to heaven, clasped her hands, and turned angrily to her husband.

"That comes of your talking!" said she.

But the count had already recovered from his excitement.

"Come, come!" said he. "Here's a fine warrior! No! Nonsense! You must study."

"It's not nonsense, Papa. Fedya Obolenski is younger than I, and he's going too. Besides, all the same I can't study now when..." Petya stopped short, flushed till he perspired, but still got out the words, "when our Fatherland is in danger."

"That'll do, that'll do--nonsense...."

"But you said yourself that we would sacrifice everything."

"Petya! Be quiet, I tell you!" cried the count, with a glance at his

wife, who had turned pale and was staring fixedly at her son.

"And I tell you--Peter Kirilych here
will also tell you..."

"Nonsense, I tell you. Your mother's milk has hardly dried on your lips and you want to go into the army! There, there, I tell you," and the count moved to go out of the room, taking the papers, probably to reread them in his study before having a nap.

"Well, Peter Kirilych, let's go and have a smoke," he said.

Pierre was agitated and undecided. Natasha's unwontedly brilliant eyes, continually glancing at him with a more than cordial look, had reduced him to this condition.

"No, I think I'll go home."

"Home? Why, you meant to spend the evening with us.... You don't often come nowadays as it is, and this girl of mine," said the count good-naturedly, pointing to Natasha, "only brightens up when you're here."

"Yes, I had forgotten... I really must go home... business..." said Pierre hurriedly.

"Well, then, au revoir!" said the count, and went out of the room.

"Why are you going? Why are you upset?" asked Natasha, and she looked challengingly into Pierre's
eyes.

"Because I love you!" was what he wanted to say, but he did not say it, and only blushed till the tears came, and lowered his eyes.

"Because it is better for me to come less often... because... No, simply I have business...."

"Why? No, tell me!" Natasha began resolutely and suddenly stopped.

They looked at each other with dismayed and embarrassed faces. He tried to smile but could not: his smile expressed suffering, and he silently kissed her hand and went out.

Pierre made up his mind not to go to the Rostovs' any more.

CHAPTER XXI

After the definite refusal he had received, Petya went to his room and there locked himself in and wept bitterly. When he came in to tea, silent, morose, and with tear-stained face, everybody pretended not to notice anything.

Next day the Emperor arrived in Moscow, and several of the Rostovs' domestic serfs begged permission to go to have a look at him. That morning Petya was a long time dressing and arranging his hair and collar to look
like a grown-up man. He frowned before his looking glass, gesticulated, shrugged his shoulders, and finally, without saying a word to anyone, took his cap and left the house by the back door, trying to avoid notice. Petya decided to go straight to where the Emperor was and to explain frankly to some gentleman-in-waiting (he imagined the Emperor to be always surrounded by gentlemen-in-waiting) that he, Count Rostov, in spite of his youth wished to serve his country; that youth could be no hindrance to loyalty, and that he was ready to... While dressing, Petya had prepared many fine things he meant to say to the gentleman-in-waiting.

It was on the very fact of being so young that Petya counted for success in reaching the Emperor--he even thought how surprised everyone would be at his youthfulness--and yet in the arrangement of his collar and hair and by his sedate deliberate walk he wished to appear a grown-up man. But the farther he went and the more his attention was diverted by the ever-increasing
crowds moving toward the
Kremlin, the less he remembered to walk with the sedateness and deliberation of a man. As he approached the Kremlin he even began to avoid being crushed and resolutely stuck out his elbows in a menacing way. But within the Trinity Gateway he was so pressed to the wall by people who probably were unaware of the patriotic intentions with which he had come that in spite of all his determination he had to give in, and stop while carriages passed in, rumbling beneath the archway. Beside Petya stood a peasant woman, a footman, two tradesmen, and a discharged soldier. After standing some time in the gateway, Petya tried to move forward in front of the others without waiting for all the carriages to pass, and he began resolutely working his way with his elbows, but the woman just in front of him, who was the first against whom he directed his efforts, angrily shouted at him:

"What are you shoving for, young lordling? Don't you see we're all

standing still?
Then why push?"

"Anybody can shove," said the footman, and also began working his elbows to such effect that he pushed Petya into a very filthy corner of the gateway.

Petya wiped his perspiring face with his hands and pulled up the damp collar which he had arranged so well at home to seem like a man's.

He felt that he no longer looked presentable, and feared that if he were now to approach the gentlemen-in-waiting in that plight he would not be admitted to the Emperor. But it was impossible to smarten oneself up or move to another place, because of the crowd. One of the generals who drove past was an acquaintance of the Rostovs', and Petya thought of asking his help, but came to the conclusion that that would not be a manly thing to do. When the carriages had all passed in, the crowd, carrying Petya with it, streamed forward into the Kremlin Square which was already full of people. There were people not only in the square, but everywhere--on the slopes and on the roofs. As soon
as Petya found himself in the square he clearly heard the sound of bells and the joyous voices of the crowd that filled the whole Kremlin.

For a while the crowd was less dense, but suddenly all heads were bared, and everyone rushed forward in one direction. Petya was being pressed so that he could scarcely breathe, and everybody shouted, "Hurrah! hurrah! hurrah!" Petya stood on tiptoe and pushed and pinched, but could see nothing except the people about him.

All the faces bore the same expression of excitement and enthusiasm. A tradesman's wife standing beside Petya sobbed, and the tears ran down her cheeks.

"Father! Angel! Dear one!" she kept repeating, wiping away her tears with her fingers.

"Hurrah!" was heard on all sides.

For a moment the crowd stood still, but then it made another rush forward.

Quite beside himself, Petya, clinching his teeth and rolling his eyes ferociously, pushed forward, elbowing his way and shouting "hurrah!" as if he were prepared that instant to kill

himself and
everyone else, but on both sides of him other people with similarly ferocious faces pushed forward and everybody shouted "hurrah!"

"So this is what the Emperor is!" thought Petya. "No, I can't petition him myself--that would be too bold." But in spite of this he continued to struggle desperately forward, and from between the backs of those in front he caught glimpses of an open space with a strip of red cloth spread out on it; but just then the crowd swayed back--the police in front were pushing back those who had pressed too close to the procession: the Emperor was passing from the palace to the Cathedral of the Assumption--and Petya unexpectedly received such a blow on his side and ribs and was squeezed so hard that suddenly everything grew dim before his eyes and he lost consciousness. When he came to himself, a man of clerical appearance with a tuft of gray hair at the back of his head and wearing a shabby blue cassock--probably a church clerk and chanter--was holding
him under the arm with one hand while warding off the pressure of the crowd with the other.

"You've crushed the young gentleman!" said the clerk. "What are you up to? Gently!... They've crushed him, crushed him!"

The Emperor entered the Cathedral of the Assumption. The crowd spread out again more evenly, and the clerk led Petya--pale and breathless--to the Tsar-cannon. Several people were sorry for Petya, and suddenly a crowd turned toward him and pressed round him. Those who stood nearest him attended to him, unbuttoned his coat, seated him on the raised platform of the cannon, and reproached those others (whoever they might be) who had crushed him.

"One might easily get killed that way! What do they mean by it? Killing people! Poor dear, he's as white as a sheet!"--various voices were heard saying.

Petya soon came to himself, the color returned to his face, the pain had passed, and at the cost of that temporary unpleasantness he had obtained a place by the cannon from where he hoped
to see the
Emperor who would be returning that way. Petya no longer thought of presenting his petition. If he could only see the Emperor he would be happy!

While the service was proceeding in the Cathedral of the Assumption-it was a combined service of prayer on the occasion of the Emperor's arrival and of thanksgiving for the conclusion of peace with the Turks--the crowd outside spread out and hawkers appeared, selling

kvas, gingerbread, and poppyseed sweets (of which Petya was particularly fond), and ordinary conversation could again be heard. A tradesman's wife was showing a rent in her shawl and telling how much the shawl had cost; another was saying that all silk goods had now got dear. The clerk who had rescued Petya was talking to a functionary about the priests who were officiating that day with the bishop. The clerk several times used the word "plenary" (of the service), a word Petya did not understand. Two young citizens were joking with some serf girls who were cracking nuts. All these conversations, especially the joking with the girls, were such as might have had a particular charm for Petya at his age, but they did not interest him now. He sat on his elevation--the pedestal of the cannon--still agitated as before by the thought of the Emperor and by his love for him. The feeling of pain and fear he had experienced when he was being crushed, together with that of rapture, still further intensified his sense of the importance of the occasion.

Suddenly the sound of a firing of cannon was heard from the embankment, to celebrate the signing of peace with the Turks, and the crowd rushed impetuously toward the embankment to watch the firing. Petya too would have run there, but the clerk who had taken the young gentleman under his protection stopped him. The firing was still proceeding when officers, generals, and gentlemen-in-waiting came running out of the cathedral, and after them others in a more leisurely manner: caps were again raised, and those who had run to look at the cannon ran back again. At last four men in uniforms and sashes emerged from the cathedral doors. "Hurrah! hurrah!" shouted the crowd again.

"Which is he? Which?" asked Petya in a tearful voice, of those around him, but no one answered him, everybody was too excited; and Petya, fixing on one of those four men, whom he could not clearly see for the tears of joy that filled his eyes, concentrated all his enthusiasm on him--though it happened not to be the Emperor-frantically shouted "Hurrah!" and resolved that tomorrow, come what might, he would join the army.

The crowd ran after the Emperor, followed him to the palace, and began to disperse. It was already late, and Petya had not eaten anything and was drenched with perspiration, yet he did not go home but stood with that diminishing, but still considerable, crowd before the palace while the Emperor dined--looking in at the palace windows, expecting he knew not what, and envying alike the notables he saw arriving at the entrance to dine with the Emperor and the court footmen who served at table, glimpses of whom could be seen through

the windows.

While the Emperor was dining, Valuev, looking out of the window, said:

"The people are still hoping to see Your Majesty again."

The dinner was nearly over, and the Emperor, munching a biscuit, rose and went out onto the balcony. The people, with Petya among them, rushed toward the balcony.

"Angel! Dear one! Hurrah! Father!..." cried the crowd, and Petya with it, and again the women and men of weaker mold, Petya among them, wept with joy.

A largish piece of the biscuit the Emperor was holding in his hand broke off, fell on the balcony parapet, and then to the ground. A coachman in a jerkin, who stood nearest, sprang forward and snatched it up. Several people in the crowd rushed at the coachman. Seeing this the Emperor had a plateful of biscuits brought him and began throwing them down from the balcony. Petya's eyes grew bloodshot, and still more excited by the danger of being crushed, he rushed at the biscuits. He did not know why, but he had to have a biscuit from the Tsar's hand and he felt that he must not give way. He sprang forward and upset an old woman who was catching at a biscuit; the old woman did not consider herself defeated though she was lying on the ground--she grabbed at some biscuits but her hand did not reach them. Petya pushed her hand away with his knee, seized a biscuit, and as if fearing to be too late, again shouted "Hurrah!" with a voice already hoarse.

The Emperor went in, and after that the greater part of the crowd began to disperse.

"There! I said if only we waited--and so it was!" was being joyfully said by various people.

Happy as Petya was, he felt sad at having to go home knowing that all the enjoyment of that day was over. He did not go straight home from the Kremlin, but called on his friend Obolenski, who was fifteen and was also entering the regiment. On returning home Petya announced resolutely and firmly that if he was not allowed to enter the service he would run away. And next day, Count Ilya Rostov--though he had not yet quite yielded--went to inquire how he could arrange for Petya to serve where there would be least danger.

CHAPTER XXII

Two days later, on the fifteenth of July, an immense number of carriages were standing outside the Sloboda Palace.

The great halls were full. In the first were the nobility and gentry in their uniforms, in the second bearded merchants in full-skirted coats of blue cloth and wearing medals. In the noblemen's hall there was an incessant movement and buzz of voices. The chief magnates sat on high-backed chairs at a large table under the portrait of the Emperor, but most of the gentry were strolling about the room.

All these nobles, whom Pierre met every day at the Club or in their own houses, were in uniform--some in that of Catherine's day, others in that of Emperor Paul, others again in the new uniforms of Alexander's time or the ordinary uniform of the nobility, and the general characteristic of being in uniform imparted something strange and fantastic to these diverse and familiar personalities, both old and young. The old men, dim-eyed, toothless, bald, sallow, and bloated, or gaunt and wrinkled, were especially striking. For the most part they sat quietly in their places and were silent, or, if they walked about and talked, attached themselves to someone younger. On all these faces, as on the faces of the crowd Petya had seen in the Square, there was a striking contradiction: the general expectation of a solemn event, and at the same time the everyday interests in a boston card party, Peter the cook, Zinaida Dmitrievna's health, and so on.

Pierre was there too, buttoned up since early morning in a nobleman's uniform that had become too tight for him. He was agitated; this extraordinary gathering not only of nobles but also of the merchant-class--les etats generaux (States-General)--evoked in him a whole series of ideas he had long laid aside but which were deeply graven in his soul: thoughts of the Contrat social and the French Revolution. The words that had struck him in the Emperor's appeal- that the sovereign was coming to the capital for consultation with his people--strengthened this idea. And imagining that in this direction something important which he had long awaited was drawing near, he strolled about watching and listening to conversations, but nowhere finding any confirmation of the ideas that occupied him.

The Emperor's manifesto was read, evoking enthusiasm, and then all moved about discussing it. Besides the ordinary topics of conversation, Pierre heard questions of where the marshals of the nobility were to stand when the Emperor entered, when a ball should be given in the Emperor's honor, whether they should group themselves by districts or by whole provinces... and so on; but as soon as the war was touched on, or what the nobility had been convened for, the talk
became undecided and indefinite. Then all preferred listening to speaking.

A middle-aged man, handsome and virile, in the uniform of a retired naval officer, was speaking in one of the rooms, and a small crowd was pressing round him. Pierre went up to the circle that had formed round the speaker and listened. Count Ilya Rostov, in a military uniform of Catherine's time, was sauntering with a pleasant smile among the crowd, with all of whom he was acquainted. He too approached that group and listened with a kindly smile and nods of approval, as he always did, to what the speaker was saying. The retired naval man was speaking very boldly, as was evident from the expression on the faces of the listeners and from the fact that some people Pierre knew as the meekest and quietest of men walked away disapprovingly or expressed disagreement with him. Pierre pushed his way into the middle of the group, listened, and convinced himself that the man was indeed a liberal, but of views quite
different from his own. The naval officer spoke in a particularly sonorous, musical, and aristocratic baritone voice, pleasantly swallowing his r's and generally slurring his consonants: the voice of a man calling out to his servant, "Heah! Bwing me my pipe!" It was indicative of dissipation and the exercise of authority.

"What if the Smolensk people have offahd to waise militia for the Empewah? Ah we to take Smolensk as our patte'n? If the noble awistocwacy of the pwovince of Moscow thinks fit, it can show its loyalty to our sov'weign the Empewah in other ways. Have we fo'gotten the waising of the militia in the yeah 'seven? All that did was to enwich the pwiests' sons and thieves and wobbahs...."

Count Ilya Rostov smiled blandly and nodded approval.

"And was our militia of any use to the Empia? Not at all! It only wuined our farming! Bettah have another conscwiption... o' ou' men will wetu'n neithah soldiers no' peasants, and we'll get only depwavity fwom them. The nobility don't
gwudge theah lives--evewy one of us will go and bwing in more wecwuits, and the sov'weign" (that was the way he referred to the Emperor) "need only say the word and

we'll all die fo' him!" added the orator with animation.

Count Rostov's mouth watered with pleasure and he nudged Pierre, but Pierre wanted to speak himself. He pushed forward, feeling stirred, but not yet sure what stirred him or what he would say. Scarcely had he opened his mouth when one of the senators, a man without a tooth in his head, with a shrewd though angry expression, standing near the first speaker, interrupted him. Evidently accustomed to managing debates and to maintaining an argument, he began in low but distinct tones:

"I imagine, sir," said he, mumbling with his toothless mouth, "that we have been summoned here not to discuss whether it's best for the empire at the present moment to adopt conscription or to call out the militia. We have been summoned to reply to the appeal with which our sovereign the Emperor
has honored us. But to judge what
is best--conscription or the militia--we can leave to the supreme authority...."

Pierre suddenly saw an outlet for his excitement. He hardened his heart against the senator who was introducing this set and narrow attitude into the deliberations of the nobility. Pierre stepped forward and interrupted him. He himself did not yet know what he would say, but he began to speak eagerly, occasionally lapsing into French or expressing himself in bookish Russian.

"Excuse me, your excellency," he began. (He was well acquainted with the senator, but thought it necessary on this occasion to address him formally.) "Though I don't agree with the gentleman..." (he hesitated: he wished to say, "Mon tres honorable preopinant"--"My very honorable opponent") "with the gentleman... whom I have not the honor of knowing, I suppose that the nobility have been summoned not merely to express their sympathy and enthusiasm but also to consider the means by which we can
assist our Fatherland! I imagine," he went
on, warming to his subject, "that the Emperor himself would not be satisfied to find in us merely owners of serfs whom we are willing to devote to his service, and chair a canon* we are ready to make of ourselves--and not to obtain from us any co-co-counsel."

*"Food for cannon."

Many persons withdrew from the circle, noticing the senator's sarcastic smile and the freedom of Pierre's remarks. Only Count Rostov was pleased with them as he had been pleased with those of the naval

officer, the senator, and in general with whatever speech he had last heard.

"I think that before discussing these questions," Pierre continued, "we should ask the Emperor--most respectfully ask His Majesty--to let us know the number of our troops and the position in which our army and our forces now are, and then..."

But scarcely had Pierre uttered these words before he was attacked from three sides. The most vigorous attack came from an old acquaintance, a boston player who had always been well disposed toward him, Stepan Stepanovich Adraksin. Adraksin was in uniform, and whether as a result of the uniform or from some other cause Pierre saw before him quite a different man. With a sudden expression of malevolence on his aged face, Adraksin shouted at Pierre:

"In the first place, I tell you we have no right to question the Emperor about that, and secondly, if the Russian nobility had that right, the Emperor could not answer such a question. The troops are moved according to the enemy's movements and the number of men increases and decreases..."

Another voice, that of a nobleman of medium height and about forty years of age, whom Pierre had formerly met at the gypsies' and knew as a bad cardplayer, and who, also transformed by his uniform, came up to Pierre, interrupted Adraksin.

"Yes, and this is not a time for discussing," he continued, "but for acting: there is war in Russia! The enemy is advancing to destroy Russia, to desecrate the tombs of our fathers, to carry off our wives and children." The nobleman smote his breast. "We will all arise, every one of us will go, for our father the Tsar!" he shouted, rolling his bloodshot eyes. Several approving voices were heard in the crowd. "We are Russians and will not grudge our blood in defense of our faith, the throne, and the Fatherland! We must cease raving if we are sons of our Fatherland! We will show Europe how Russia rises to the defense of Russia!"

Pierre wished to reply, but could not get in a word. He felt that his words, apart from what meaning they conveyed, were less audible than the sound of his opponent's voice.

Count Rostov at the back of the crowd was expressing approval; several persons, briskly turning a shoulder to the orator at the end of a phrase, said:

"That's right, quite right! Just so!"

Pierre wished to say that he was ready to sacrifice his money, his serfs, or himself, only one ought to know the state of affairs in order to be able to improve it, but he was unable to speak. Many voices shouted and talked at the same time, so that Count Rostov had not time to signify his approval of them all, and the group increased, dispersed, re-formed, and then moved with a hum of talk into the largest hall and to the big table. Not only was Pierre's attempt to speak unsuccessful, but he was rudely interrupted, pushed aside, and people turned away from him as from a common enemy. This happened not because they were displeased by the substance of his speech, which had even been forgotten after the many subsequent speeches, but to animate it the crowd needed a tangible object to love and a tangible object to hate. Pierre became the latter. Many other orators spoke after the excited nobleman, and all in the same tone. Many spoke eloquently and with originality.

Glinka, the editor of the Russian Messenger, who was recognized (cries of "author! author!" were heard in the crowd), said that "hell must be repulsed by hell," and that he had seen a child smiling at lightning flashes and thunderclaps, but "we will not be that child."

"Yes, yes, at thunderclaps!" was repeated approvingly in the back rows of the crowd.

The crowd drew up to the large table, at which sat gray-haired or bald seventy-year-old magnates, uniformed and besashed almost all of whom Pierre had seen in their own homes with their buffoons, or playing boston at the clubs. With an incessant hum of voices the crowd advanced to the table. Pressed by the throng against the high backs of the chairs, the orators spoke one after another and sometimes two together. Those standing behind noticed what a speaker omitted to say and hastened to supply it. Others in that heat and crush racked their brains to find some thought and hastened to utter it. The old magnates, whom Pierre knew, sat and turned to look first at one and then at another, and their faces for the most part only expressed the fact that they found it very hot. Pierre, however, felt excited, and the general desire to show that they were ready to go to all lengths--which found expression in the tones and looks more than in the substance of the speeches--infected him too. He did not renounce his opinions, but felt himself in some way to blame and wished to justify himself.

"I only said that it would be more to the purpose to make sacrifices when we know what is needed!" said he, trying to be heard above the other voices.

One of the old men nearest to him looked round, but his attention was immediately diverted by an exclamation at the other side of the table.

"Yes, Moscow will be surrendered! She will be our expiation!" shouted one man.

"He is the enemy of mankind!" cried another. "Allow me to speak...." "Gentlemen, you are crushing me!..."

CHAPTER XXIII

At that moment Count Rostopchin with his protruding chin and alert eyes, wearing the uniform of a general with sash over his shoulder, entered the room, stepping briskly to the front of the crowd of gentry.

"Our sovereign the Emperor will be here in a moment," said Rostopchin. "I am straight from the palace. Seeing the position we are in, I think there is little need for discussion. The Emperor has deigned to summon us and the merchants. Millions will pour forth from there"--he pointed to the merchants' hall--"but our business is to supply men and not spare ourselves... That is the least we can do!"

A conference took place confined to the magnates sitting at the table. The whole consultation passed more than quietly. After all the preceding noise the sound of their old voices saying one after another, "I agree," or for variety, "I too am of that opinion," and so on had even a mournful effect.

The secretary was told to write down the resolution of the Moscow nobility and gentry, that they would furnish ten men, fully equipped, out of every thousand serfs, as the Smolensk gentry had done. Their chairs made a scraping noise as the gentlemen who had conferred rose with apparent relief, and began walking up and down, arm in arm, to stretch their legs and converse in couples.

"The Emperor! The Emperor!" a sudden cry resounded through the halls and the whole throng hurried to the entrance.

The Emperor entered the hall through a broad path between two lines of nobles. Every face expressed respectful, awe-struck curiosity. Pierre stood rather far off and could not hear all that the Emperor said. From what he did hear he understood that the Emperor spoke of the danger threatening the empire and of the hopes he placed on the Moscow nobility. He was answered by a voice which informed him of the resolution just arrived at.

"Gentlemen!" said the Emperor with a quivering voice.

There was a rustling among the crowd and it again subsided, so that Pierre distinctly heard the pleasantly human voice of the Emperor saying with emotion:

"I never doubted the devotion of the Russian nobles, but today it has surpassed my expectations. I thank you in the name of the Fatherland! Gentlemen, let us act! Time
is most precious..."

The Emperor ceased speaking, the crowd began pressing round him, and rapturous exclamations were heard from all sides.

"Yes, most precious... a royal word," said Count Rostov, with a sob. He stood at the back, and, though he had heard hardly anything, understood everything in his own way.

From the hall of the nobility the Emperor went to that of the merchants. There he remained about ten minutes. Pierre was among those who saw him come out from the merchants' hall with tears of emotion in his eyes. As became known later, he had scarcely begun to address the merchants before tears gushed from his eyes and he concluded in a trembling voice. When Pierre saw the Emperor he was coming out accompanied by two merchants, one of whom Pierre knew, a fat otkupshchik. The other was the mayor, a man with a thin sallow face and narrow beard. Both were weeping. Tears filled the thin man's eyes, and the fat otkupshchik sobbed outright like a child and kept repeating:

"Our lives
and property--take them, Your Majesty!"

Pierre's one feeling at the moment was a desire to show that he was ready to go all lengths and was prepared to sacrifice everything. He now felt ashamed of his speech with its constitutional tendency and sought an opportunity of effacing it.

Having heard that Count Mamonov was furnishing a regiment, Bezukhov at once informed Rostopchin that he would give a thousand men and their maintenance.

Old Rostov could not tell his wife of what had passed without tears, and at once consented to Petya's request and went himself to enter his name.

Next day the Emperor left Moscow. The assembled nobles all took off their uniforms and settled down again in their homes and clubs, and not without some groans gave orders to their stewards about the enrollment, feeling amazed themselves at what they had done.

BOOK TEN: 1812

CHAPTER I

Napoleon began the war with Russia because he could not resist going to Dresden, could not help having his head turned by the homage he received, could not help donning a Polish uniform and yielding to the stimulating influence of a June morning, and could not refrain from bursts of anger in the presence of Kurakin and then of Balashev.

Alexander refused negotiations because he felt himself to be personally insulted. Barclay de Tolly tried to command the army in the best way, because he wished to fulfill his duty and earn fame as a great commander. Rostov charged the French because he could not restrain his wish for a gallop across a level field; and in the same way the innumerable people who took part in the war acted in accord with their personal characteristics, habits, circumstances, and aims. They were moved by fear or vanity, rejoiced or were indignant, reasoned, imagining that they knew what they were doing and did it of their own free will, but they all were involuntary tools of history, carrying on a work concealed from them but comprehensible to us. Such is the inevitable fate of men of action, and the higher they stand in the social hierarchy the less are they free.

The actors of 1812 have long since left the stage, their personal interests have vanished leaving no trace, and nothing remains of that time but its historic results.

Providence compelled all these men, striving to attain personal aims, to further the accomplishment of a stupendous result no one of them at all expected--neither Napoleon, nor Alexander, nor still less any of those who did the actual fighting.

The cause of the destruction of the French army in 1812 is clear to us now. No one will deny that that cause was, on the one hand, its advance into the heart of Russia late in the season without any preparation for a winter campaign and, on the other, the character given to the war by the burning of Russian towns and the hatred of the foe this aroused among the Russian people. But no one at the time foresaw (what now seems so evident) that this was the only way an army of eight hundred thousand men--the best in the world and led by the best general--could be destroyed in conflict with a raw army of half its numerical strength, and led by inexperienced commanders as the Russian army was. Not only did no one see this, but on the Russian side every effort was made to hinder the only thing that could save Russia, while on the French side, despite Napoleon's experience and so-called military genius, every effort was directed to pushing on to Moscow at the end of the summer, that is, to doing the very thing that was bound to lead to destruction.

In historical works on the year 1812 French writers are very fond of saying that Napoleon felt the danger of extending his line, that he sought a battle and that his marshals advised him to stop at Smolensk, and of making similar statements to show that the danger of the campaign was even then understood. Russian authors are still fonder of telling us that from the commencement of the campaign a Scythian war plan was adopted to lure Napoleon into the depths of Russia, and this plan some of them attribute to Pfuel, others to a certain Frenchman, others to Toll, and others again to Alexander himself-pointing to notes, projects, and letters which contain hints of such a

line of action. But all these hints at what happened, both from the French side and the Russian, are advanced only because they fit in with the event. Had that event not occurred these hints would have been forgotten, as we have forgotten the thousands and millions of hints and expectations to the contrary which were current then but have now been forgotten because the event falsified them. There are always so many conjectures as to the issue of any event that however it may end there will always be people to say: "I said then that it would be so," quite forgetting that amid their innumerable conjectures

many were to quite the contrary effect.

Conjectures as to Napoleon's awareness of the danger of extending his line, and (on the Russian side) as to luring the enemy into the depths of Russia, are evidently of that kind, and only by much straining can historians attribute such conceptions to Napoleon and his marshals, or such plans to the Russian commanders. All the facts are in flat contradiction to such conjectures. During the whole period of the war not only was there no wish on the Russian side to draw the French into the heart of the country, but from their first entry into Russia everything was done to stop them. And not only was Napoleon not afraid to extend his line, but he welcomed every step forward as a triumph and did not seek battle as eagerly as in former campaigns, but very lazily.

At the very beginning of the war our armies were divided, and our sole aim was to unite them, though uniting the armies was no advantage if we meant to retire and lure the enemy into the depths of the country. Our Emperor joined the army to encourage it to defend every inch of Russian soil and not to retreat. The enormous Drissa camp was formed on Pfuel's plan, and there was no intention of retiring farther. The Emperor reproached the commanders in chief for every step they retired. He could not bear the idea of letting the enemy even reach Smolensk, still less could he contemplate the burning of Moscow, and when our armies did unite he was displeased that Smolensk was abandoned and burned without a general engagement having been fought under its walls.

So thought the Emperor, and the Russian commanders and people were still more provoked at the thought that our forces were retreating into the depths of the country.

Napoleon having cut our armies apart advanced far into the country and missed several chances of forcing an engagement. In August he was at Smolensk and thought only of how to advance farther, though as we now see that advance was evidently ruinous to him.

The facts clearly show that Napoleon did not foresee the danger of the advance on Moscow, nor did Alexander and the Russian commanders then think of luring Napoleon on, but quite the contrary. The luring of Napoleon into the depths of the country was not the result of any plan, for no one believed it to be possible; it resulted from a most complex interplay of intrigues, aims, and wishes among those who took part in the war and had no perception whatever of the inevitable, or of the one way of saving Russia. Everything came about

fortuitously. The armies were divided at the commencement of the campaign. We tried to unite them, with the evident intention of giving battle and checking the enemy's advance, and by this effort to unite them while avoiding battle with a much stronger enemy, and necessarily withdrawing the armies at an acute angle--we led the French on to Smolensk. But we withdrew at an acute angle not only because the French advanced between our two armies; the angle became still more acute and we withdrew still farther, because Barclay de Tolly was an unpopular foreigner disliked by Bagration (who would come his command), and Bagration--being in command of the second army--tried to postpone joining up and coming under Barclay's command as long as he could. Bagration was slow in effecting the junction--though that was the chief aim of all at headquarters--because, as he alleged, he exposed his army to danger on this march, and it was best for him to retire more to the left and more to the south, worrying the enemy from flank and rear and securing from the Ukraine recruits for his army; and it looks as if he planned this in order not to come under the command of the detested foreigner Barclay, whose rank was inferior to his own.

The Emperor was with the army to encourage it, but his presence and ignorance of what steps to take, and the enormous number of advisers and plans, destroyed the first army's energy and it retired.

The intention was to make a stand at the Drissa camp, but Paulucci, aiming at becoming commander in chief, unexpectedly employed his energy to influence Alexander, and Pfuel's whole plan was abandoned and the command entrusted to Barclay. But as Barclay did not inspire confidence his power was limited. The armies were divided, there was no unity of command, and Barclay was unpopular; but from this confusion, division, and the unpopularity of the foreign commander in chief, there resulted on the one hand indecision and the avoidance of a battle (which we could not have refrained from had the armies been united and had someone else, instead of Barclay, been in command) and on the other an ever-increasing indignation against the foreigners and an increase in patriotic zeal.

At last the Emperor left the army, and as the most convenient and indeed the only pretext for his departure it was decided that it was necessary for him to inspire the people in the capitals and arouse the nation in general to a patriotic war. And by this visit of the Emperor to Moscow the strength of the Russian army was trebled.

He left in order not to obstruct the commander in chief's undivided control

of the army, and hoping that more decisive action would then be taken, but the command of the armies became still more confused and enfeebled. Bennigsen, the Tsarevich, and a swarm of adjutants general remained with the army to keep the commander in chief under observation and arouse his energy, and Barclay, feeling less free than ever under the observation of all these "eyes of the Emperor," became still more cautious of undertaking any decisive action and avoided giving battle.

Barclay stood for caution. The Tsarevich hinted at treachery and demanded a general engagement. Lubomirski, Bronnitski, Wlocki, and the others of that group stirred up so much trouble that Barclay, under pretext of sending papers to the Emperor, dispatched these Polish adjutants general to Petersburg and plunged into an open struggle with Bennigsen and the Tsarevich.

At Smolensk the armies at last reunited, much as Bagration disliked it.

Bagration drove up in a carriage to to the house occupied by Barclay.
Barclay donned his sash and came out to meet and report to his senior officer Bagration.

Despite his seniority in rank Bagration, in this contest of magnanimity, took his orders from Barclay, but, having submitted, agreed with him less than ever. By the Emperor's orders Bagration reported direct to him. He wrote to Arakcheev, the Emperor's confidant: "It must be as my sovereign pleases, but I cannot work with the Minister (meaning Barclay). For God's sake send me somewhere else if only in command of a regiment. I cannot stand it here. Headquarters are so full of Germans that a Russian cannot exist and there is no sense in anything. I thought I was really serving my sovereign and the Fatherland, but it turns out that I am serving Barclay. I confess I do not want to."

The swarm of Bronnitskis and Wintzingerodes and their like still further embittered the relations between the commanders in chief, and even less unity resulted. Preparations were made to fight the French before Smolensk.
A general was sent to survey the position.
This general, hating Barclay, rode to visit a friend of his own, a corps commander, and, having spent the day with him, returned to Barclay and condemned, as unsuitable from every point of view, the battleground he had not seen.

While disputes and intrigues were going on about the future field of battle, and while we were looking for the French--having lost touch

with them--the French stumbled upon Neverovski's division and reached the walls of Smolensk.

It was necessary to fight an unexpected battle at Smolensk to save our lines of communication. The battle was fought and thousands were killed on both sides.

Smolensk was abandoned contrary to the wishes of the Emperor and of the whole people. But Smolensk was burned by its own inhabitants-who had been misled by their governor. And these ruined inhabitants, setting an example to other Russians, went to Moscow thinking only of their own losses but kindling hatred of the foe. Napoleon advanced farther and we retired, thus arriving at the very result which caused his destruction.

CHAPTER II

The day after his son had left, Prince Nicholas sent for Princess Mary to come to his study.

"Well? Are you satisfied now?" said he. "You've made me quarrel with my son! Satisfied, are you? That's all you wanted! Satisfied?... It hurts me, it hurts. I'm old and weak and this is what you wanted. Well then, gloat over it! Gloat over it!"

After that Princess Mary did not see her father for a whole week. He was ill and did not leave his study.

Princess Mary noticed to her surprise that during this illness the old prince not only excluded her from his room, but did not admit Mademoiselle Bourienne either. Tikhon alone attended him.

At the end of the week the prince reappeared and resumed his former way of life, devoting himself with special activity to building operations and the arrangement of the gardens and completely breaking off his relations with Mademoiselle Bourienne. His looks and cold tone to his daughter seemed to say: "There, you see? You plotted against me, you lied to Prince Andrew about my relations with that Frenchwoman and made me quarrel with him, but you see I need neither her nor you!"

Princess Mary spent half of every day with little Nicholas, watching his lessons, teaching him Russian and music herself, and talking to Dessalles; the rest of the day she spent over her books, with her old nurse, or with "God's folk" who sometimes came by the back door to see her.

Of the war Princess Mary thought as women do think about wars. She feared for her brother who was in it, was horrified by and amazed at the strange cruelty that impels men to kill one another, but she did not understand the significance of this war, which seemed to her like all previous wars. She did not realize the significance of this war, though Dessalles with whom she constantly conversed was passionately interested in its progress and tried to explain his own conception of
it to her, and though the "God's folk" who came to see her reported, in their own way, the rumors current among the people of an invasion by Antichrist, and though Julie (now Princess Drubetskaya), who had resumed correspondence with her, wrote patriotic letters from Moscow.

"I write you in Russian, my good friend," wrote Julie in her Frenchified Russian, "because I have a detestation for all the French, and the same for their language which I cannot support to hear spoken.... We in Moscow are elated by enthusiasm for our adored Emperor.

"My poor husband is enduring pains and hunger in Jewish taverns, but the news which I have inspires me yet more.

"You heard probably of the heroic exploit of Raevski, embracing his two sons and saying: 'I will perish with them but we will not be shaken!' And truly though the enemy was twice stronger than we, we were unshakable. We pass the time as we can, but in war as in war! The princesses Aline and Sophie sit whole days with me, and we, unhappy widows
of live men, make beautiful conversations over our charpie, only you, my friend, are missing..." and so on.

The chief reason Princess Mary did not realize the full significance of this war was that the old prince never spoke of it, did not recognize it, and laughed at Dessalles when he mentioned it at dinner. The prince's tone was so calm and confident that Princess Mary unhesitatingly believed him.

All that July the old prince was exceedingly active and even animated. He planned another garden and began a new building for the domestic serfs. The only thing that made Princess Mary anxious about him was that he slept very little and, instead of sleeping in his

study as usual, changed his sleeping place every day. One day he would order his camp bed to be set up in the glass gallery, another day he remained on the couch or on the lounge chair in the drawing room and dozed there without undressing, while--instead of Mademoiselle Bourienne--a serf boy read to him. Then again he would spend a night in the dining room.

On August 1, a second letter was received from Prince Andrew. In his first letter which came soon after he had left home, Prince Andrew had dutifully asked his father's forgiveness for what he had allowed himself to say and begged to be restored to his favor. To this letter the old prince had replied affectionately, and from that time had kept the Frenchwoman at a distance. Prince Andrew's second letter, written near Vitebsk after the French had occupied that town, gave a brief account of the whole campaign, enclosed for them a plan he had drawn and forecasts as to the further progress of the war. In this letter Prince Andrew pointed out to his father the danger of staying at Bald Hills, so near the theater of war and on the army's direct line of march, and advised him to move to Moscow.

At dinner that day, on Dessalles' mentioning that the French were said to have already entered Vitebsk, the old prince remembered his son's letter.

"There was a letter from Prince Andrew today," he said to Princess Mary--"Haven't you read it?"

"No, Father," she replied in a frightened voice.

She could not have read the letter as she did not even know it had arrived.

"He writes about this war," said the prince, with the ironic smile that had become habitual to him in speaking of the present war.

"That must be very interesting," said Dessalles. "Prince Andrew is in a position to know..."

"Oh, very interesting!" said Mademoiselle Bourienne.

"Go and get it for me," said the old prince to Mademoiselle Bourienne. "You know--under the paperweight on the little table."

Mademoiselle Bourienne jumped up eagerly.

"No, don't!" he exclaimed with a frown. "You go, Michael Ivanovich."

Michael Ivanovich rose and went to the study. But as soon as he had left the room the old prince, looking uneasily round, threw down his napkin and went himself.

"They can't do anything... always make some muddle," he muttered.

While he was away Princess Mary, Dessalles,
Mademoiselle
Bourienne, and even little Nicholas exchanged looks in silence. The old prince returned with quick steps, accompanied by Michael Ivanovich, bringing the letter and a plan. These he put down beside him--not letting anyone read them at dinner.

On moving to the drawing room he handed the letter to Princess Mary and, spreading out before him the plan of the new building and fixing his eyes upon it, told her to read the letter aloud. When she had done so Princess Mary looked inquiringly at her father. He was examining the plan, evidently engrossed in his own ideas.

"What do you think of it, Prince?" Dessalles ventured to ask.

"I? I?..." said the prince as if unpleasantly awakened, and not taking his eyes from the plan of the building.

"Very possibly the theater of war will move so near to us that..."

"Ha ha ha! The theater of war!" said the prince. "I have said and still say that the theater of war is Poland and the enemy will never get beyond the Niemen."

Dessalles
looked in amazement at the prince, who was talking of the Niemen when the enemy was already at the Dnieper, but Princess Mary, forgetting the geographical position of the Niemen, thought that what her father was saying was correct.

"When the snow melts they'll sink in the Polish swamps. Only they could fail to see it," the prince continued, evidently thinking of the campaign of 1807 which seemed to him so recent. "Bennigsen should have advanced into Prussia sooner, then things would have taken a different turn..."

"But, Prince," Dessalles began timidly, "the letter mentions Vitebsk...."

"Ah, the letter? Yes..." replied the prince peevishly. "Yes... yes..." His face suddenly took on a morose expression. He paused.

"Yes, he writes that the French were beaten at... at... what river is it?"

Dessalles dropped his eyes.

"The prince says nothing about that," he remarked gently.

"Doesn't he? But I didn't invent it myself."

No one spoke for a long time.

"Yes... yes... Well, Michael Ivanovich," he suddenly went on, raising his head and pointing to the plan of the building, "tell me how you mean to alter it...."

Michael Ivanovich went up to the plan, and the prince after speaking to him about the building looked angrily at Princess Mary and Dessalles and went to his own room.

Princess Mary saw Dessalles' embarrassed and astonished look fixed on her father, noticed his silence, and was struck by the fact that her father had forgotten his son's letter on the drawing-room table; but she was not only afraid to speak of it and ask Dessalles the reason of his confusion and silence, but was afraid even to think about it.

In the evening Michael Ivanovich, sent by the prince, came to Princess Mary for Prince Andrew's letter which had been forgotten in the drawing room. She gave it to him and, unpleasant as it was to her to do so, ventured to ask him what her father was doing.

"Always busy," replied Michael Ivanovich with a respectfully ironic smile which caused Princess Mary to turn pale. "He's worrying very much about the new building. He has been reading a little, but now"--Michael Ivanovich went on, lowering his voice--"now he's at his desk, busy with his will, I expect." (One of the prince's favorite occupations of late had been the preparation of some papers he meant to leave at his death and which he called his "will.")

"And Alpatych is being sent to Smolensk?" asked Princess Mary.

"Oh, yes, he has been waiting to start for some time."

CHAPTER III

When Michael Ivanovich returned to the study with the letter, the old prince, with spectacles on and a shade over his eyes, was sitting at his open bureau with screened candles, holding a paper in his outstretched hand, and in a somewhat dramatic attitude was reading his manuscript--his "Remarks" as he termed it--which was to be transmitted to the Emperor after his death.

When Michael Ivanovich went in there were tears in the prince's eyes evoked by the memory of the time when the paper he was now reading had been written. He took the letter from Michael Ivanovich's hand, put it in his pocket, folded up his papers, and called in Alpatych who had long been waiting.

The prince had a list of things to be bought in Smolensk and, walking up and down the room past Alpatych who stood by the door, he gave his instructions.

"First, notepaper--do you hear? Eight quires, like this sample, gilt-edged... it must be exactly like the sample. Varnish, sealing wax, as in Michael Ivanovich's list."

He paced up and down for a while and glanced at his notes.

"Then hand to the governor in person a letter about the deed."

Next, bolts for the doors of the new building were wanted and had to be of a special shape the prince had himself designed, and a leather case had to be ordered to keep the "will" in.

The instructions to Alpatych took over two hours and still the prince did not let him go. He sat down, sank into thought, closed his eyes, and dozed off. Alpatych made a slight movement.

"Well, go, go! If anything more is wanted I'll send after you."

Alpatych went out. The prince again went to his bureau, glanced into it, fingered his papers, closed the bureau again, and sat down at the table to write to the governor.

It was already late when he rose after sealing the letter. He wished to sleep, but he knew he would not be able to and that most depressing thoughts came to him in bed. So he called Tikhon and went through

the rooms with him to show him where to set up the bed for that night.

He went about looking at every corner. Every place seemed unsatisfactory, but worst of all was his customary couch in the study. That couch was dreadful to him, probably because of the oppressive thoughts he had had when lying there. It was unsatisfactory everywhere, but the corner behind the piano in the sitting room was better than other places: he had never slept there yet.

With the help of a footman Tikhon brought in the bedstead and began putting it up.

"That's not right! That's not right!" cried the prince, and himself pushed it a few inches from the corner and then closer in again.

"Well, at last I've finished, now I'll rest," thought the prince, and let Tikhon undress him.

Frowning with vexation at the effort necessary to divest himself of his coat and trousers, the prince undressed, sat down heavily on the bed, and appeared to be meditating as he looked contemptuously at his withered yellow legs. He was not meditating, but only deferring the moment of making the effort to lift those legs up and turn over on the bed. "Ugh, how hard it is! Oh, that this toil might end and you would release me!" thought he. Pressing his lips together he made that effort for the twenty-thousandth time and lay down. But hardly had he done so before he felt the bed rocking backwards and forwards beneath him as if it were breathing heavily and jolting. This happened to him almost every night. He opened his eyes as they were closing.

"No peace, damn them!" he muttered, angry he knew not with whom. "Ah yes, there was something else important, very important, that I was keeping till I should be in bed. The bolts? No, I told him about them. No, it was something, something in the drawing room. Princess Mary talked some nonsense. Dessalles, that fool, said something. Something in my pocket--can't remember..."

"Tikhon, what did we talk about at dinner?"

"About Prince Michael..."

"Be quiet, quiet!" The prince slapped his hand on the table. "Yes, I know, Prince Andrew's letter! Princess Mary read it. Dessalles said something about Vitebsk. Now I'll read it."

He had the letter taken from his pocket and the table--on which stood a glass of lemonade and a spiral wax candle--moved close to the bed, and putting on his spectacles he began reading. Only now in the stillness of the night, reading it by the faint light under the green shade, did he grasp its meaning for a moment.

"The French at Vitebsk, in four days' march they may be at Smolensk; perhaps are already
there! Tikhon!" Tikhon jumped up. "No, no, I don't
want anything!" he shouted.

He put the letter under the candlestick and closed his eyes. And there rose before him the Danube at bright noonday: reeds, the Russian camp, and himself a young general without a wrinkle on his ruddy face, vigorous and alert, entering Potemkin's gaily colored tent, and a burning sense of jealousy of "the favorite" agitated him now as strongly as it had done then. He recalled all the words spoken at that first meeting with Potemkin. And he saw before him a plump, rather sallow-faced, short, stout woman, the Empress Mother, with her smile and her words at her first gracious reception of him, and then that same face on the catafalque, and the encounter he had with Zubov over her coffin about his right to kiss her hand.

"Oh, quicker, quicker! To get back to that time and have done with all the present! Quicker, quicker--and that they should leave me in peace!"

CHAPTER IV

Bald Hills, Prince Nicholas Bolkonski's
estate, lay forty miles east
from Smolensk and two miles from the main road to Moscow.

The same evening that the prince gave his instructions to Alpatych, Dessalles, having asked to see Princess Mary, told her that, as the prince was not very well and was taking no steps to secure his safety, though from Prince Andrew's letter it was evident that to remain at Bald Hills might be dangerous, he respectfully advised her to send a letter by Alpatych to the Provincial Governor at Smolensk, asking him to let her know the state of affairs and the extent of the danger to which Bald Hills was exposed. Dessalles wrote this letter to the Governor for Princess Mary, she signed it, and it was given to Alpatych with instructions to hand it to the

Governor and to come back as quickly as possible if there was danger.

Having received all his orders Alpatych, wearing a white beaver hat- a present from the prince--and carrying a stick as the prince did, went out accompanied by his family. Three well-fed roans stood ready harnessed to a small conveyance with a leather hood.

The larger bell was muffled and the little bells on the harness stuffed with paper. The prince allowed no one at Bald Hills to drive with ringing bells; but on a long journey Alpatych liked to have them. His satellites--the senior clerk, a countinghouse clerk, a scullery maid, a cook, two old women, a little pageboy, the coachman, and various domestic serfs--were seeing him off.

His daughter placed chintz-covered down cushions for him to sit on and behind his back. His old sister-in-law popped in a small bundle, and one of the coachmen helped him into the vehicle.

"There! There! Women's fuss! Women, women!" said Alpatych, puffing and speaking rapidly just as the prince did, and he climbed into the trap.

After giving the clerk orders about the work to be done, Alpatych, not trying to imitate the prince now, lifted the hat from his bald head and crossed himself three times.

"If there is anything... come back, Yakov Alpatych! For Christ's sake think of us!" cried his wife, referring to the rumors of war and the enemy.

"Women, women! Women's fuss!" muttered Alpatych to himself and started on his journey, looking round at the fields of yellow rye and the still-green, thickly growing oats, and at other quite black fields just being plowed a second time.

As he went along he looked with pleasure at the year's splendid crop of corn, scrutinized the strips of ryefield which here and there were already being reaped, made his calculations as to the sowing and the harvest, and asked himself whether he had not forgotten any of the prince's orders.

Having baited the horses twice on the way, he arrived at the town toward evening on the fourth of August.

Alpatych kept meeting and overtaking baggage trains and troops on the road. As he approached Smolensk he heard the sounds of distant

firing, but these did not impress him. What struck him most was the sight of a splendid field of oats in which
a camp had been pitched and
which was being mown down by the soldiers, evidently for fodder. This fact impressed Alpatych, but in thinking about his own business he soon forgot it.

All the interests of his life for more than thirty years had been bounded by the will of the prince, and he never went beyond that limit. Everything not connected with the execution of the prince's orders did not interest and did not even exist for Alpatych.

On reaching Smolensk on the evening of the fourth of August he put up in the Gachina suburb across the Dnieper, at the inn kept by Ferapontov, where he had been in the habit of putting up for the last thirty years. Some thirty years ago Ferapontov, by Alpatych's advice, had bought a wood from the prince, had begun to trade, and now had a house, an inn, and a corn dealer's shop in that province. He was a stout, dark, red-faced peasant in the forties, with thick lips, a broad knob of a nose, similar knobs over his black frowning brows, and a round belly.

Wearing
a waistcoat over his cotton shirt, Ferapontov was standing before his shop which opened onto the street. On seeing Alpatych he went up to him.

"You're welcome, Yakov Alpatych. Folks are leaving the town, but you have come to it," said he.

"Why are they leaving the town?" asked Alpatych.

"That's what I say. Folks are foolish! Always afraid of the French."

"Women's fuss, women's fuss!" said Alpatych.

"Just what I think, Yakov Alpatych. What I say is: orders have been given not to let them in, so that must be right. And the peasants are asking three rubles for carting--it isn't Christian!"

Yakov Alpatych heard without heeding. He asked for a samovar and for hay for his horses, and when he had had his tea he went to bed.

All night long troops were moving past the inn. Next morning Alpatych donned a jacket he wore only in town and went out on business. It was a sunny morning and by eight o'clock it was already hot. "A good day for harvesting," thought Alpatych.

From beyond
the town firing had been heard since early morning. At
eight o'clock the booming of cannon was added to the sound of
musketry. Many people were hurrying through the streets and there were
many soldiers, but cabs were still driving about, tradesmen stood at
their shops, and service was being held in the churches as usual.
Alpatych went to the shops, to government offices, to the post office,
and to the Governor's. In the offices and shops and at the post office
everyone was talking about the army and about the enemy who was
already attacking the town, everybody was asking what should be
done, and all were trying to calm one another.

In front of the Governor's house Alpatych found a large number of
people, Cossacks, and a traveling carriage of the Governor's. At the
porch he met two of the landed gentry, one of whom he knew. This
man, an ex-captain of police, was saying angrily:

"It's no joke, you know! It's all very well if you're single. 'One
man though undone is but one,' as the
proverb says, but with
thirteen in your family and all the property... They've brought us
to utter ruin! What sort of governors are they to do that? They
ought to be hanged--the brigands!..."

"Oh come, that's enough!" said the other.

"What do I care? Let him hear! We're not dogs," said the
ex-captain of police, and looking round he noticed Alpatych.

"Oh, Yakov Alpatych! What have you come for?"

"To see the Governor by his excellency's order," answered
Alpatych, lifting his head and proudly thrusting his hand into the
bosom of his coat as he always did when he mentioned the prince....
"He has ordered me to inquire into the position of affairs," he added.

"Yes, go and find out!" shouted the angry gentleman. "They've
brought things to such a pass that there are no carts or
anything!... There it is again, do you hear?" said he, pointing
in the direction whence came the sounds of firing.

"They've brought us all to ruin... the brigands!" he repeated, and
descended the porch steps.

Alpatych
swayed his head and went upstairs. In the waiting room were
tradesmen, women, and officials, looking silently at one another.
The door of the Governor's room opened and they all rose and moved

forward. An official ran out, said some words to a merchant, called a stout official with a cross hanging on his neck to follow him, and vanished again, evidently wishing to avoid the inquiring looks and questions addressed to him. Alpatych moved forward and next time the official came out addressed him, one hand placed in the breast of his buttoned coat, and handed him two letters.

"To his Honor Baron Asch, from General-in-Chief Prince Bolkonski," he announced with such solemnity and significance that the official turned to him and took the letters.

A few minutes later the Governor received Alpatych and hurriedly said to him:

"Inform the prince and princess that I knew nothing: I acted on the highest instructions--here..." and he handed a paper to Alpatych. "Still, as the prince is unwell
my advice is that they
should go to Moscow. I am just starting myself. Inform them..."

But the Governor did not finish: a dusty perspiring officer ran into the room and began to say something in French. The Governor's face expressed terror.

"Go," he said, nodding his head to Alpatych, and began questioning the officer.

Eager, frightened, helpless glances were turned on Alpatych when he came out of the Governor's room. Involuntarily listening now to the firing, which had drawn nearer and was increasing in strength, Alpatych hurried to his inn. The paper handed to him by the Governor said this:

"I assure you that the town of Smolensk is not in the slightest danger as yet and it is unlikely that it will be threatened with any. I from the one side and Prince Bagration from the other are marching to unite our forces before Smolensk, which junction will be effected on the 22nd instant, and both armies with their united forces will defend our compatriots of the province entrusted to
your care
till our efforts shall have beaten back the enemies of our Fatherland, or till the last warrior in our valiant ranks has perished. From this you will see that you have a perfect right to reassure the inhabitants of Smolensk, for those defended by two such brave armies may feel assured of victory." (Instructions from Barclay de Tolly to Baron Asch, the civil governor of Smolensk, 1812.)

People were anxiously roaming about the streets.

Carts piled high with household utensils, chairs, and cupboards kept emerging from the gates of the yards and moving along the streets. Loaded carts stood at the house next to Ferapontov's and women were wailing and lamenting as they said good-by. A small watchdog ran round barking in front of the harnessed horses.

Alpatych entered the innyard at a quicker pace than usual and went straight to the shed where his horses and trap were. The coachman was asleep. He woke him up, told him to harness, and went into the passage. From the host's room came
the sounds of a child crying, the
despairing sobs of a woman, and the hoarse angry shouting of Ferapontov. The cook began running hither and thither in the passage like a frightened hen, just as Alpatych entered.

"He's done her to death. Killed the mistress!... Beat her... dragged her about so!..."

"What for?" asked Alpatych.

"She kept begging to go away. She's a woman! 'Take me away,' says she, 'don't let me perish with my little children! Folks,' she says, 'are all gone, so why,' she says, 'don't we go?' And he began beating and pulling her about so!"

At these words Alpatych nodded as if in approval, and not wishing to hear more went to the door of the room opposite the innkeeper's, where he had left his purchases.

"You brute, you murderer!" screamed a thin, pale woman who, with a baby in her arms and her kerchief torn from her head, burst through the door at that moment and down the steps into the yard.

Ferapontov came out after her, but on seeing Alpatych adjusted his waistcoat,
smoothed his hair, yawned, and followed Alpatych into the opposite room.

"Going already?" said he.

Alpatych, without answering or looking at his host, sorted his packages and asked how much he owed.

"We'll reckon up! Well, have you been to the Governor's?" asked Ferapontov. "What has been decided?"

Alpatych replied that the Governor had not told him anything definite.

"With our business, how can we get away?" said Ferapontov. "We'd have to pay seven rubles a cartload to Dorogobuzh and I tell them they're not Christians to ask it! Selivanov, now, did a good stroke last Thursday--sold flour to the army at nine rubles a sack. Will you have some tea?" he added.

While the horses were being harnessed Alpatych and Ferapontov over their tea talked of the price of corn, the crops, and the good weather for harvesting.

"Well, it seems to be getting quieter," remarked Ferapontov, finishing his third cup of tea and getting up. "Ours must have got the best of it. The orders were not to let them in. So we're in force, it seems.... They say the other day Matthew Ivanych Platov drove them into the river Marina and drowned some eighteen thousand in one day."

Alpatych collected his parcels, handed them to the coachman who had come in, and settled up with the innkeeper. The noise of wheels, hoofs, and bells was heard from the gateway as a little trap passed out.

It was by now late in the afternoon. Half the street was in shadow, the other half brightly lit by the sun. Alpatych looked out of the window and went to the door. Suddenly the strange sound of a far-off whistling and thud was heard, followed by a boom of cannon blending into a dull roar that set the windows rattling.

He went out into the street: two men were running past toward the bridge. From different sides came whistling sounds and the thud of cannon balls and bursting shells falling on the town. But these sounds were hardly heard in comparison with the noise of the firing outside the town and attracted little attention from the inhabitants. The town was being bombarded by a hundred and thirty guns which Napoleon had ordered up after four o'clock. The people did not at once realize the meaning of this bombardment.

At first the noise of the falling bombs and shells only aroused curiosity. Ferapontov's wife, who till then had not ceased wailing under the shed, became quiet and with the baby in her arms went to the gate, listening to the sounds and looking in silence at the people.

The cook and a shop assistant came to the gate. With lively curiosity everyone tried to get a glimpse of the projectiles as they flew over their heads. Several people came round the corner talking eagerly.

"What force!" remarked one. "Knocked the roof and ceiling all to splinters!"

"Routed up the earth like a pig," said another.

"That's grand, it bucks one up!" laughed the first. "Lucky you jumped aside, or it would have wiped you out!"

Others joined those men and stopped and told how cannon balls had fallen
on a house close to them. Meanwhile still more projectiles, now with the swift sinister whistle of a cannon ball, now with the agreeable intermittent whistle of a shell, flew over people's heads incessantly, but not one fell close by, they all flew over. Alpatych was getting into his trap. The innkeeper stood at the gate.

"What are you staring at?" he shouted to the cook, who in her red skirt, with sleeves rolled up, swinging her bare elbows, had stepped to the corner to listen to what was being said.

"What marvels!" she exclaimed, but hearing her master's voice she turned back, pulling down her tucked-up skirt.

Once more something whistled, but this time quite close, swooping downwards like a little bird; a flame flashed in the middle of the street, something exploded, and the street was shrouded in smoke.

"Scoundrel, what are you doing?" shouted the innkeeper, rushing to the cook.

At that moment the pitiful wailing of women was heard from different sides, the frightened baby
began to cry, and people crowded silently
with pale faces round the cook. The loudest sound in that crowd was her wailing.

"Oh-h-h! Dear souls, dear kind souls! Don't let me die! My good souls!..."

Five minutes later no one remained in the street. The cook, with her thigh broken by a shell splinter, had been carried into the kitchen. Alpatych, his coachman, Ferapontov's wife and children and the house porter were all sitting in the cellar, listening. The roar of guns,

the whistling of projectiles, and the piteous moaning of the cook, which rose above the other sounds, did not cease for a moment. The mistress rocked and hushed her baby and when anyone came into the cellar asked in a pathetic whisper what had become of her husband who had remained in the street. A shopman who entered told her that her husband had gone with others to the cathedral, whence they were fetching the wonder-working icon of Smolensk.

Toward dusk the cannonade began to subside. Alpatych left the cellar and stopped
in the doorway. The evening sky that had been so clear was clouded with smoke, through which, high up, the sickle of the new moon shone strangely. Now that the terrible din of the guns had ceased a hush seemed to reign over the town, broken only by the rustle of footsteps, the moaning, the distant cries, and the crackle of fires which seemed widespread everywhere. The cook's moans had now subsided. On two sides black curling clouds of smoke rose and spread from the fires. Through the streets soldiers in various uniforms walked or ran confusedly in different directions like ants from a ruined ant-hill. Several of them ran into Ferapontov's yard before Alpatych's eyes. Alpatych went out to the gate. A retreating regiment, thronging and hurrying, blocked the street.

Noticing him, an officer said: "The town is being abandoned. Get away, get away!" and then, turning to the soldiers, shouted:

"I'll teach you to run into the yards!"

Alpatych went back to the house, called the coachman,
and told him
to set off. Ferapontov's whole household came out too, following Alpatych and the coachman. The women, who had been silent till then, suddenly began to wail as they looked at the fires--the smoke and even the flames of which could be seen in the failing twilight--and as if in reply the same kind of lamentation was heard from other parts of the street. Inside the shed Alpatych and the coachman arranged the tangled reins and traces of their horses with trembling hands.

As Alpatych was driving out of the gate he saw some ten soldiers in Ferapontov's open shop, talking loudly and filling their bags and knapsacks with flour and sunflower seeds. Just then Ferapontov returned and entered his shop. On seeing the soldiers he was about to shout at them, but suddenly stopped and, clutching at his hair, burst into sobs and laughter:

"Loot everything, lads! Don't let those devils get it!" he cried, taking some bags of flour himself and throwing them into the street.

Some of the soldiers
were frightened and ran away, others went on
filling their bags. On seeing Alpatych, Ferapontov turned to him:

"Russia is done for!" he cried. "Alpatych, I'll set the place on
fire myself. We're done for!..." and Ferapontov ran into the yard.

Soldiers were passing in a constant stream along the street blocking
it completely, so that Alpatych could not pass out and had to wait.
Ferapontov's wife and children were also sitting in a cart waiting
till it was possible to drive out.

Night had come. There were stars in the sky and the new moon shone
out amid the smoke that screened it. On the sloping descent to the
Dnieper Alpatych's cart and that of the innkeeper's wife, which were
slowly moving amid the rows of soldiers and of other vehicles, had
to stop. In a side street near the crossroads where the vehicles had
stopped, a house and some shops were on fire. This fire was already
burning itself out. The flames now died down and were lost in the
black smoke, now suddenly flared up
again brightly, lighting up with
strange distinctness the faces of the people crowding at the
crossroads. Black figures flitted about before the fire, and through
the incessant crackling of the flames talking and shouting could be
heard. Seeing that his trap would not be able to move on for some
time, Alpatych got down and turned into the side street to look at the
fire. Soldiers were continually rushing backwards and forwards near
it, and he saw two of them and a man in a frieze coat dragging burning
beams into another yard across the street, while others carried
bundles of hay.

Alpatych went up to a large crowd standing before a high barn
which was blazing briskly. The walls were all on fire and the back
wall had fallen in, the wooden roof was collapsing, and the rafters
were alight. The crowd was evidently watching for the roof to fall in,
and Alpatych watched for it too.

"Alpatych!" a familiar voice suddenly hailed the old man.

"Mercy on us! Your excellency!" answered Alpatych,
immediately
recognizing the voice of his young prince.

Prince Andrew in his riding cloak, mounted on a black horse, was
looking at Alpatych from the back of the crowd.

"Why are you here?" he asked.

"Your... your excellency," stammered Alpatych and broke into sobs. "Are we really lost? Master!..."

"Why are you here?" Prince Andrew repeated.

At that moment the flames flared up and showed his young master's pale worn face. Alpatych told how he had been sent there and how difficult it was to get away.

"Are we really quite lost, your excellency?" he asked again.

Prince Andrew without replying took out a notebook and raising his knee began writing in pencil on a page he tore out. He wrote to his sister:

"Smolensk is being abandoned. Bald Hills will be occupied by the enemy within a week. Set off immediately for Moscow. Let me know at once when you will start. Send by special messenger to Usvyazh."

Having written this and given the paper to Alpatych, he told him how to arrange for
departure of the prince, the princess, his son, and the boy's tutor, and how and where to let him know immediately. Before he had had time to finish giving these instructions, a chief of staff followed by a suite galloped up to him.

"You are a colonel?" shouted the chief of staff with a German accent, in a voice familiar to Prince Andrew. "Houses are set on fire in your presence and you stand by! What does this mean? You will answer for it!" shouted Berg, who was now assistant to the chief of staff of the commander of the left flank of the infantry of the first army, a place, as Berg said, "very agreeable and well en evidence."

Prince Andrew looked at him and without replying went on speaking to Alpatych.

"So tell them that I shall await a reply till the tenth, and if by the tenth I don't receive news that they have all got away I shall have to throw up everything and come myself to Bald Hills."

"Prince," said Berg, recognizing Prince Andrew, "I only spoke because I have to obey
orders, because I always do obey exactly....
You must please excuse me," he went on apologetically.

Something cracked in the flames. The fire died down for a moment and wreaths of black smoke rolled from under the roof. There was another terrible crash and something huge collapsed.

"Ou-rou-rou!" yelled the crowd, echoing the crash of the collapsing roof of the barn, the burning grain in which diffused a cakelike aroma all around. The flames flared up again, lighting the animated, delighted, exhausted faces of the spectators.

The man in the frieze coat raised his arms and shouted:

"It's fine, lads! Now it's raging... It's fine!"

"That's the owner himself," cried several voices.

"Well then," continued Prince Andrew to Alpatych, "report to them as I have told you"; and not replying a word to Berg who was now mute beside him, he touched his horse and rode down the side street.

CHAPTER V

From Smolensk the troops continued to retreat, followed by the enemy. On the tenth of August the regiment Prince Andrew commanded was marching along the highroad past the avenue leading to Bald Hills. Heat and drought had continued for more than three weeks. Each day fleecy clouds floated across the sky and occasionally veiled the sun, but toward evening the sky cleared again and the sun set in reddish-brown mist. Heavy night dews alone refreshed the earth. The unreaped corn was scorched and shed its grain. The marshes dried up. The cattle lowed from hunger, finding no food on the sun-parched meadows. Only at night and in the forests while the dew lasted was there any freshness. But on the road, the highroad along which the troops marched, there was no such freshness even at night or when the road passed through the forest; the dew was imperceptible on the sandy dust churned up more than six inches deep. As soon as day dawned the march began. The artillery and baggage wagons moved noiselessly through the deep dust that rose to the very hubs of the wheels, and the infantry sank ankle-deep in that soft, choking, hot dust that never cooled even at night. Some of this dust was kneaded by the feet and wheels, while the rest rose and hung like a cloud over the troops, settling in eyes, ears, hair, and nostrils, and worst of all

in the lungs of the men and beasts as they moved along that road. The higher the sun rose the higher rose that cloud of dust, and through the screen of its hot fine particles one could look with naked eye at the sun, which showed like a huge crimson ball in the unclouded sky. There was no wind, and the men choked in that motionless atmosphere. They marched with handkerchiefs tied over their noses and mouths. When they passed through a village they all rushed to the wells and fought for the water and drank it down to the mud.

Prince Andrew was in command of a regiment, and the management of that regiment, the welfare of the men and the necessity of receiving and giving orders, engrossed him. The burning of Smolensk and its abandonment made
an epoch in his life. A novel feeling of anger
against the foe made him forget his own sorrow. He was entirely devoted to the affairs of his regiment and was considerate and kind to his men and officers. In the regiment they called him "our prince," were proud of him and loved him. But he was kind and gentle only to those of his regiment, to Timokhin and the like--people quite new to him, belonging to a different world and who could not know and understand his past. As soon as he came across a former acquaintance or anyone from the staff, he bristled up immediately and grew spiteful, ironical, and contemptuous. Everything that reminded him of his past was repugnant to him, and so in his relations with that former circle he confined himself to trying to do his duty and not to be unfair.

In truth everything presented itself in a dark and gloomy light to Prince Andrew, especially after the abandonment of Smolensk on the sixth of August (he considered that it could and should have been defended)
and after his sick father had had to flee to Moscow,
abandoning to pillage his dearly beloved Bald Hills which he had built and peopled. But despite this, thanks to his regiment, Prince Andrew had something to think about entirely apart from general questions. Two days previously he had received news that his father, son, and sister had left for Moscow; and though there was nothing for him to do at Bald Hills, Prince Andrew with a characteristic desire to foment his own grief decided that he must ride there.

He ordered his horse to be saddled and, leaving his regiment on the march, rode to his father's estate where he had been born and spent his childhood. Riding past the pond where there used always to be dozens of women chattering as they rinsed their linen or beat it with wooden beetles, Prince Andrew noticed that there was not a soul about and that the little washing wharf, torn from its place and half submerged, was floating on its side in the middle of the pond. He rode

to the keeper's lodge. No one at the stone entrance gates of the drive and the door stood open. Grass had already begun to grow on the garden paths, and horses and calves were straying in the English park. Prince Andrew rode up to the hothouse; some of the glass panes were broken, and of the trees in tubs some were overturned and others dried up. He called for Taras the gardener, but no one replied. Having gone round the corner of the hothouse to the ornamental garden, he saw that the carved garden fence was broken and branches of the plum trees had been torn off with the fruit. An old peasant whom Prince Andrew in his childhood had often seen at the gate was sitting on a green garden seat, plaiting a bast shoe.

He was deaf and did not hear Prince Andrew ride up. He was sitting on the seat the old prince used to like to sit on, and beside him strips of bast were hanging on the broken and withered branch of a magnolia.

Prince Andrew rode up to the house. Several limes in the old garden
had been cut down and a piebald mare and her foal were wandering in front of the house among the rosebushes. The shutters were all closed, except at one window which was open. A little serf boy, seeing Prince Andrew, ran into the house. Alpatych, having sent his family away, was alone at Bald Hills and was sitting indoors reading the Lives of the Saints. On hearing that Prince Andrew had come, he went out with his spectacles on his nose, buttoning his coat, and, hastily stepping up, without a word began weeping and kissing Prince Andrew's knee.

Then, vexed at his own weakness, he turned away and began to report on the position of affairs. Everything precious and valuable had been removed to Bogucharovo. Seventy quarters of grain had also been carted away. The hay and the spring corn, of which Alpatych said there had been a remarkable crop that year, had been commandeered by the troops and mown down while still green. The peasants were ruined; some of them too had gone to Bogucharovo,
only a few remained.

Without waiting to hear him out, Prince Andrew asked:

"When did my father and sister leave?" meaning when did they leave for Moscow.

Alpatych, understanding the question to refer to their departure for Bogucharovo, replied that they had left on the seventh and again went into details concerning the estate management, asking for instructions.

"Am I to let the troops have the oats, and to take a receipt for them? We have still six hundred quarters left," he inquired.

"What am I to say to him?" thought Prince Andrew, looking down on the old man's bald head shining in the sun and seeing by the expression on his face that the old man himself understood how untimely such questions were and only asked them to allay his grief.

"Yes, let them have it," replied Prince Andrew.

"If you noticed some disorder in the garden," said Alpatych, "it was impossible to prevent it. Three regiments have been here and spent the night, dragoons mostly. I took down the name and rank of their commanding officer, to hand in a complaint about it."

"Well, and what are you going to do? Will you stay here if the enemy occupies the place?" asked Prince Andrew.

Alpatych turned his face to Prince Andrew, looked at him, and suddenly with a solemn gesture raised his arm.

"He is my refuge! His will be done!" he exclaimed.

A group of bareheaded peasants was approaching across the meadow toward the prince.

"Well, good-by!" said Prince Andrew, bending over to Alpatych. "You must go away too, take away what you can and tell the serfs to go to the Ryazan estate or to the one near Moscow."

Alpatych clung to Prince Andrew's leg and burst into sobs. Gently disengaging himself, the prince spurred his horse and rode down the avenue at a gallop.

The old man was still sitting in the ornamental garden, like a fly impassive on the face of a loved one who is dead, tapping the last on which he was making the bast shoe, and two little girls, running out from the hot house carrying in their skirts plums they had plucked from the trees there, came upon Prince Andrew. On seeing the young master, the elder one frightened look clutched her younger companion by the hand and hid with her behind a birch tree, not stopping to pick up some green plums they had dropped.

Prince Andrew turned away with startled haste, unwilling to let them see that they had been observed. He was sorry for the pretty frightened little girl, was afraid of looking at her, and yet felt

an irresistible desire to do so. A new sensation of comfort and relief came over him when, seeing these girls, he realized the existence of other human interests entirely aloof from his own and just as legitimate as those that occupied him. Evidently these girls passionately desired one thing--to carry away and eat those green plums without being caught--and Prince Andrew shared their wish for the success of their enterprise. He could not resist looking at them once more. Believing their danger past, they sprang from their ambush and, chirruping something in their shrill little voices and holding up their skirts, their bare little sunburned feet scampered merrily and quickly across the meadow grass.

Prince Andrew was somewhat refreshed by having ridden off the dusty highroad along which the troops were moving. But not far from Bald Hills he again came out on the road and overtook his regiment at its halting place by the dam of a small pond. It was past one o'clock. The sun, a red ball through the dust, burned and scorched his back intolerably through his black coat. The dust always hung motionless above the buzz of talk that came from the resting troops. There was no wind. As he crossed the dam Prince Andrew smelled the ooze and freshness of the pond. He longed to get into that water, however dirty it might be, and he glanced round at the pool from whence came sounds of shrieks and laughter. The small, muddy, green pond had risen visibly more than a foot, flooding the dam, because it was full of the naked white bodies of soldiers with brick-red hands, necks, and faces, who were splashing about in it. All this naked white human flesh, laughing and shrieking, floundered about in that dirty pool like carp stuffed into a watering can, and the suggestion of merriment in that floundering mass rendered it specially pathetic.

One fair-haired young soldier of the third company, whom Prince Andrew knew and who had a strap round the calf of one leg, crossed himself, stepped back to get a good run, and plunged into the water; another, a dark noncommissioned officer who was always shaggy, stood up to his waist in the water joyfully wriggling his muscular figure and snorted with satisfaction as he poured the water over his head with hands blackened to the wrists. There were sounds of men slapping one another, yelling, and puffing.

Everywhere on the bank, on the dam, and in the pond, there was healthy, white, muscular flesh. The officer, Timokhin, with his red little nose, standing on the dam wiping himself with a towel, felt confused at seeing the prince, but made up his mind to address him nevertheless.

"It's very nice, your excellency! Wouldn't you like to?" said he.

"It's dirty," replied Prince Andrew, making a grimace.

"We'll clear it out for you in a minute," said Timokhin, and,
still undressed, ran off to clear the men out of the pond.

"The prince wants to bathe."

"What prince? Ours?" said many voices, and the men were in such
haste to clear out that the prince could hardly stop them. He
decided that he would rather wash himself with water in the barn.

"Flesh, bodies, cannon fodder!" he thought, and he looked at his own
naked body and shuddered, not from cold but from a sense of disgust
and horror he did not himself understand, aroused by the sight of that
immense number of bodies splashing about in the dirty pond.

On the seventh of August Prince Bagration wrote as follows from
his quarters at Mikhaylovna on the Smolensk road:

Dear Count Alexis Andreevich--(He
was writing to Arakcheev but
knew that his letter would be read by the Emperor, and therefore
weighed every word in it to the best of his ability.)

I expect the Minister [Barclay de Tolly] has already reported the
abandonment of Smolensk to the enemy. It is pitiable and sad, and
the whole army is in despair that this most important place has been
wantonly abandoned. I, for my part, begged him personally most
urgently and finally wrote him, but nothing would induce him to
consent. I swear to you on my honor that Napoleon was in such a fix as
never before and might have lost half his army but could not have
taken Smolensk. Our troops fought, and are fighting, as never
before. With fifteen thousand men I held the enemy at bay for
thirty-five hours and beat him; but he would not hold out even for
fourteen hours. It is disgraceful, a stain on our army, and as for
him, he ought, it seems to me, not to live. If he reports that our
losses were great, it is not true; perhaps about
four thousand, not
more, and not even that; but even were they ten thousand, that's
war! But the enemy has lost masses...

What would it have cost him to hold out for another two days? They
would have had to retire of their own accord, for they had no water

for men or horses. He gave me his word he would not retreat, but suddenly sent instructions that he was retiring that night. We cannot fight in this way, or we may soon bring the enemy to Moscow...

There is a rumor that you are thinking of peace. God forbid that you should make peace after all our sacrifices and such insane retreats! You would set all Russia against you and every one of us would feel ashamed to wear the uniform. If it has come to this--we must fight as long as Russia can and as long as there are men able to stand...

One man ought to be in command, and not two. Your Minister may perhaps be good as a Minister, but as a general he is not merely bad but execrable, yet to him is entrusted the fate of our whole country....

I am really frantic with vexation; forgive my writing boldly. It is clear that the man who advocates the conclusion of a peace, and that the Minister should command the army, does not love our sovereign and desires the ruin of us all. So I write you frankly: call out the militia. For the Minister is leading these visitors after him to Moscow in a most masterly way. The whole army feels great suspicion of the Imperial aide-de-camp Wolzogen. He is said to be more Napoleon's man than ours, and he is always advising the Minister. I am not merely civil to him but obey him like a corporal, though I am his senior. This is painful, but, loving my benefactor and sovereign, I submit. Only I am sorry for the Emperor that he entrusts our fine army to such as he. Consider that on our retreat we have lost by fatigue and left in the hospital more than fifteen thousand men, and had we attacked this would not have happened. Tell me, for God's sake, what will Russia, our mother Russia, say to our being

so frightened, and why are we abandoning our good and gallant Fatherland to such rabble and implanting feelings of hatred and shame in all our subjects? What are we scared at and of whom are we afraid? I am not to blame that the Minister is vacillating, a coward, dense, dilatory, and has all bad qualities. The whole army bewails it and calls down curses upon him...

CHAPTER VI

Among the innumerable categories applicable to the phenomena of human life one may discriminate between those in which substance prevails and those in which form prevails. To the latter--as distinguished from village, country, provincial, or even Moscow

life--we may allot Petersburg life, and especially the life of its salons. That life of the salons is unchanging. Since the year 1805 we had made peace and had again quarreled with Bonaparte and had made constitutions and unmade them again, but the salons of Anna Pavlovna Helene remained just as they had been--the one seven and the other five years before.

At Anna Pavlovna's they talked with perplexity of Bonaparte's successes just as before and saw in them and in the subservience shown to him by the European sovereigns a malicious conspiracy, the sole object of which was to cause unpleasantness and anxiety to the court circle of which Anna Pavlovna was the representative. And in Helene's salon, which Rumyantsev himself honored with his visits, regarding Helene as a remarkably intelligent woman, they talked with the same ecstasy in 1812 as in 1808 of the "great nation" and the "great man," and regretted our rupture with France, a rupture which, according to them, ought to be promptly terminated by peace.

Of late, since the Emperor's return from the army, there had been some excitement in these conflicting salon circles and some demonstrations of hostility to one another, but each camp retained its own tendency. In Anna Pavlovna's circle only those Frenchmen were admitted who were deep-rooted legitimists, and patriotic views were expressed

to the effect that one ought not to go to the French theater and that to maintain the French troupe was costing the government as much as a whole army corps. The progress of the war was eagerly followed, and only the reports most flattering to our army were circulated. In the French circle of Helene and Rumyantsev the reports of the cruelty of the enemy and of the war were contradicted and all Napoleon's attempts at conciliation were discussed. In that circle they discountenanced those who advised hurried preparations for a removal to Kazan of the court and the girls' educational establishments under the patronage of the Dowager Empress. In Helene's circle the war in general was regarded as a series of formal demonstrations which would very soon end in peace, and the view prevailed expressed by Bilibin--who now in Petersburg was quite at home in Helene's house, which every clever man was obliged to visit-that not by gunpowder but by those who invented it would matters be settled.

In that circle the Moscow enthusiasm--news of which had reached Petersburg simultaneously with the Emperor's return--was ridiculed sarcastically and very cleverly, though with much caution.

Anna Pavlovna's circle on the contrary was enraptured by this enthusiasm and spoke of it as Plutarch speaks of the deeds of the ancients. Prince Vasili, who still occupied his former important posts, formed a connecting link between these two circles. He

visited his "good friend Anna Pavlovna" as well as his daughter's "diplomatic salon," and often in his constant comings and goings between the two camps became confused and said at Helene's what he should have said at Anna Pavlovna's and vice versa.

Soon after the Emperor's return Prince Vasili in a conversation about the war at Anna Pavlovna's severely condemned Barclay de Tolly, but was undecided as to who ought to be appointed commander in chief. One of the visitors, usually spoken of as "a man of great merit," having described how he had that day seen Kutuzov, the newly chosen chief of the Petersburg militia, presiding over the enrollment of recruits at the Treasury, cautiously ventured to suggest that Kutuzov would be the man to satisfy all requirements.

Anna Pavlovna remarked with a melancholy smile that Kutuzov had done nothing but cause the Emperor annoyance.

"I have talked and talked at the Assembly of the Nobility," Prince Vasili interrupted, "but they did not listen to me. I told them his election as chief of the militia would not please the Emperor. They did not listen to me.

"It's all this mania for opposition," he went on. "And who for? It is all because we want to ape the foolish enthusiasm of those Muscovites," Prince Vasili continued, forgetting for a moment that though at Helene's one had to ridicule the Moscow enthusiasm, at Anna Pavlovna's one had to be ecstatic about it. But he retrieved his mistake at once. "Now, is it suitable that Count Kutuzov, the oldest general in Russia, should preside at that tribunal? He will get nothing for his pains! How could they make a man commander in chief who cannot mount a horse, who drops asleep at a council, and has the very worst morals! A good reputation he made for himself at Bucharest! I don't speak of his capacity as a general, but at a time like this how they appoint a decrepit, blind old man, positively blind? A fine idea to have a blind general! He can't see anything. To play blindman's bluff? He can't see at all!"

No one replied to his remarks.

This was quite correct on the twenty-fourth of July. But on the twenty-ninth of July Kutuzov received the title of Prince. This might indicate a wish to get rid of him, and therefore Prince Vasili's opinion continued to be correct though he was not now in any hurry to express it. But on the eighth of August a committee, consisting of Field Marshal Saltykov, Arakcheev, Vyazmitinov, Lopukhin, and Kochubey met to consider the progress of the war. This committee

came to the conclusion that our failures were due to a want of unity in the command and though the members of the committee were aware of the Emperor's dislike of Kutuzov, after a short deliberation they agreed to advise his appointment as commander in chief. That same day Kutuzov was appointed commander in chief with full powers over the armies and over the whole region occupied by them.

On the ninth of August Prince Vasili at Anna Pavlovna's again met the "man of great merit." The latter was very attentive to Anna Pavlovna because he wanted to be appointed director of one of the educational establishments for young ladies. Prince Vasili entered the room with the air of a happy conqueror who has attained the object of his desires.

"Well, have you heard the great news? Prince Kutuzov is field marshal! All dissensions are at an end! I am so glad, so delighted! At last we have a man!" said he, glancing sternly and significantly round at everyone in the drawing room.

The "man of great merit," despite his desire to obtain the post of director, could not refrain from reminding Prince Vasili of his former opinion. Though this was impolite to Prince Vasili in Anna Pavlovna's drawing room, and also to Anna Pavlovna herself who had received the news with delight, he could not resist the temptation.

"But, Prince, they say he is blind!" said he, reminding Prince Vasili of his own words.

"Eh? Nonsense! He sees well enough," said Prince Vasili rapidly, in a deep voice and with a slight cough--the voice and cough with which he was wont to dispose of all difficulties.

"He sees well enough," he added. "And what I am so pleased about," he went on, "is that our sovereign has given him full powers over all the armies and the whole region--powers no commander in chief ever had before. He is a second autocrat," he concluded with a victorious smile.

"God grant it! God grant it!" said Anna Pavlovna.

The "man of great merit," who was still a novice in court circles, wishing to flatter Anna Pavlovna by defending her former position on this question, observed:

"It is said that the Emperor was reluctant to give Kutuzov those

powers. They say he blushed like a girl to whom Joconde is read, when he said to Kutuzov: 'Your Emperor and the Fatherland award you this honor.'"

"Perhaps the heart took no part in that speech," said Anna Pavlovna.

"Oh, no, no!" warmly rejoined Prince Vasili, who would not now yield Kutuzov to anyone; in his opinion Kutuzov was not only admirable himself, but was adored by everybody. "No, that's impossible," said he, "for our sovereign appreciated him so highly before."

"God grant only that Prince Kutuzov assumes real power and does not allow anyone to put a spoke in his wheel," observed Anna Pavlovna.

Understanding at once to whom she alluded, Prince Vasili said in a whisper:

"I know for a fact that Kutuzov made it an absolute condition that the Tsarevich should not be with the army. Do you know what he said to the Emperor?"

And Prince Vasili repeated the words supposed to have been spoken by Kutuzov to the Emperor. "I can neither punish him if he does wrong nor reward him if he does right."

"Oh, a very wise man is Prince Kutuzov! I have known him a long time!"

"They even say," remarked the "man of great merit" who did not yet possess courtly tact, "that his excellency made it an express condition that the sovereign himself should not be with the army."

As soon as he said this both Prince Vasili and Anna Pavlovna turned away from him and glanced sadly at one another with a sigh at his naivete.

CHAPTER VII

While this was taking place in Petersburg the French had already passed Smolensk and were drawing nearer and nearer to Moscow. Napoleon's historian Thiers, like other of his historians, trying to justify his hero says that he was drawn to the walls of Moscow against

his will. He is as right as other historians who look for the explanation of historic events in the will of one man; he is as right as the Russian historians who maintain that Napoleon was drawn to Moscow by the skill of the Russian commanders. Here besides the law of retrospection, which regards all the past as a preparation for events that subsequently occur, the law of reciprocity comes in, confusing the whole matter. A good chessplayer having lost a game is sincerely convinced that his loss resulted from a mistake he made and looks for that mistake in the opening, but forgets that at each stage of the game there were similar mistakes and that none of his moves were perfect. He only notices the mistake to which he pays attention, because his opponent took advantage of it. How much more complex than this is the game of war, which occurs under certain limits of time, and where it is not one will that manipulates lifeless objects, but everything results from innumerable conflicts of various wills!

After Smolensk Napoleon sought a battle beyond Dorogobuzh at Vyazma, and then at Tsarevo-Zaymishche, but it happened that owing to a conjunction of innumerable circumstances the Russians could not give battle till they reached Borodino, seventy miles from Moscow. From Vyazma Napoleon ordered a direct advance on Moscow.

Moscou, la capitale asiatique de ce grand empire, la ville sacree des peuples d'Alexandre, Moscou avec ses innombrables eglises en forme de pagodes chinoises,* this Moscow gave Napoleon's imagination no rest. On the march from Vyazma to Tsarevo-Zaymishche he rode his light bay bobtailed ambler accompanied by his Guards, his bodyguard, his pages, and aides-de-camp. Berthier, his chief of staff, dropped behind to question a Russian prisoner captured by the cavalry. Followed by Lelorgne d'Ideville, an interpreter, he overtook Napoleon at a gallop and reined in his horse with an amused expression.

*"Moscow, the Asiatic capital of this great empire, the sacred city of Alexander's people, Moscow with its innumerable churches shaped like Chinese pagodas."

"Well?" asked Napoleon.

"One of Platov's Cossacks says that Platov's corps is joining up with the main army and that Kutuzov has been appointed commander in chief. He is a very shrewd and garrulous fellow."

Napoleon smiled and told them to give the Cossack a horse and bring the man to him. He wished to talk to him himself. Several adjutants galloped off, and an hour later, Lavrushka, the serf Denisov had handed over to Rostov, rode up to Napoleon in an orderly's jacket and on a French cavalry saddle, with a merry, and tipsy face. Napoleon told him to ride by his side and began questioning him.

"You are a Cossack?"

"Yes, a Cossack, your Honor."

"The Cossack, not knowing in what company he was, for Napoleon's plain appearance had nothing about it that would reveal to an Oriental mind the presence of a monarch, talked with extreme familiarity of the incidents of the war," says Thiers, narrating this episode. In reality Lavrushka, having got drunk the day before and left his master dinnerless, had been whipped and sent to the village in quest of chickens, where
he engaged in looting till the French took him
prisoner. Lavrushka was one of those coarse, bare-faced lackeys who have seen all sorts of things, consider it necessary to do everything in a mean and cunning way, are ready to render any sort of service to their master, and are keen at guessing their master's baser impulses, especially those prompted by vanity and pettiness.

Finding himself in the company of Napoleon, whose identity he had easily and surely recognized, Lavrushka was not in the least abashed but merely did his utmost to gain his new master's favor.

He knew very well that this was Napoleon, but Napoleon's presence could no more intimidate him than Rostov's, or a sergeant major's with the rods, would have done, for he had nothing that either the sergeant major or Napoleon could deprive him of.

So he rattled on, telling all the gossip he had heard among the orderlies. Much of it true. But when Napoleon asked him whether the Russians thought they would beat Bonaparte or not,
Lavrushka screwed
up his eyes and considered.

In this question he saw subtle cunning, as men of his type see cunning in everything, so he frowned and did not answer immediately.

"It's like this," he said thoughtfully, "if there's a battle soon, yours will win. That's right. But if three days pass, then after that, well, then that same battle will not soon be over."

Lelorgne d'Ideville smilingly interpreted this speech to Napoleon

thus: "If a battle takes place within the next three days the French will win, but if later, God knows what will happen." Napoleon did not smile, though he was evidently in high good humor, and he ordered these words to be repeated.

Lavrushka noticed this and to entertain him further, pretending not to know who Napoleon was, added:

"We know that you have Bonaparte and that he has beaten everybody in the world, but we are a different matter..."--without knowing why or how this bit of boastful patriotism slipped out at the end.

The interpreter translated these words without the last phrase, and Bonaparte smiled. "The young Cossack made his mighty interlocutor smile," says Thiers. After riding a few paces in silence, Napoleon turned to Berthier and said he wished to see how the news that he was talking to the Emperor himself, to that very Emperor who had written his immortally victorious name on the Pyramids, would affect this enfant du Don.*

*"Child of the Don."

The fact was accordingly conveyed to Lavrushka.

Lavrushka, understanding that this was done to perplex him and that Napoleon expected him to be frightened, to gratify his new masters promptly pretended to be astonished and awe-struck, opened his eyes wide, and assumed the expression he usually put on when taken to be whipped. "As soon as Napoleon's interpreter had spoken," says Thiers, "the Cossack, seized by amazement, did not utter another word, but rode on, his eyes fixed on the conqueror whose fame had reached him across the steppes of the East. All his loquacity was suddenly arrested and replaced by a naive and silent feeling of admiration. Napoleon, after making the Cossack a present, had him set free like a bird restored to its native fields."

Napoleon rode on, dreaming of the Moscow that so appealed to his imagination, and "the bird restored to its native fields" galloped to our outposts, inventing on the way all that had not taken place but that he meant to relate to his comrades. What had really taken place he did not wish to relate because it seemed to him not worth telling. He found the Cossacks, inquired for the regiment operating with Platov's detachment and by evening found his master, Nicholas Rostov, quartered at Yankovo. Rostov was just mounting to go for a

ride round the neighboring villages with Ilyin; he let Lavrushka have another horse and took him along with him.

CHAPTER VIII

Princess Mary was not in Moscow and out of danger as Prince Andrew supposed.

After the return of Alpatych from Smolensk the old prince suddenly seemed to awake as from a dream. He ordered the militiamen to be called up from the villages and armed, and wrote a letter to the commander in chief informing him that he had resolved to remain at Bald Hills to the last extremity and to defend it, leaving to the commander in chief's discretion to take measures or not for the defense of Bald Hills, where one of Russia's oldest generals would be captured or killed, and he announced to his household that he would remain at Bald Hills.

But while himself remaining, he gave instructions for the departure of the princess and Dessalles with the little prince to Bogucharovo and thence to Moscow. Princess Mary, alarmed by her father's feverish and sleepless activity after his previous apathy, could not bring herself to leave him alone and for the first time in her life ventured to disobey him. She refused to go away and her father's fury broke over her in a terrible storm. He repeated every injustice he had ever inflicted on her. Trying to convict her, he told her she had worn him out, had caused his quarrel with his son, had harbored nasty suspicions of him, making it the object of her life to poison his existence, and he drove her from his study telling her that if she did not go away it was all the same to him. He declared that he did not wish to remember her existence and warned her not to dare to let him see her. The fact that he did not, as she had feared, order her to be carried away by force but only told her not to let him see her cheered Princess Mary. She knew it was a proof that in the depth of his soul he was glad she was remaining at home and had not gone away.

The morning after little Nicholas had left, the old prince donned his full uniform and prepared to visit the commander in chief. His caleche was already at the door. Princess Mary saw him walk out of the house in his uniform wearing all his orders and go down the garden

to review his armed peasants and domestic serfs. She sat by the window listening to his
voice which reached her from the garden. Suddenly
several men came running up the avenue with frightened faces.

Princess Mary ran out to the porch, down the flower-bordered path, and into the avenue. A large crowd of militiamen and domestics were moving toward her, and in their midst several men were supporting by the armpits and dragging along a little old man in a uniform and decorations. She ran up to him and, in the play of the sunlight that fell in small round spots through the shade of the lime-tree avenue, could not be sure what change there was in his face. All she could see was that his former stern and determined expression had altered to one of timidity and submission. On seeing his daughter he moved his helpless lips and made a hoarse sound. It was impossible to make out what he wanted. He was lifted up, carried to his study, and laid on the very couch he had so feared of late.

The doctor, who was fetched that same night, bled him and said
that the prince had had a seizure
paralyzing his right side.

It was becoming more and more dangerous to remain at Bald Hills, and next day they moved the prince to Bogucharovo, the doctor accompanying him.

By the time they reached Bogucharovo, Dessalles and the little prince had already left for Moscow.

For three weeks the old prince lay stricken by paralysis in the new house Prince Andrew had built at Bogucharovo, ever in the same state, getting neither better nor worse. He was unconscious and lay like a distorted corpse. He muttered unceasingly, his eyebrows and lips twitching, and it was impossible to tell whether he understood what was going on around him or not. One thing was certain--that he was suffering and wished to say something. But what it was, no one could tell: it might be some caprice of a sick and half-crazy man, or it might relate to public affairs, or possibly to family concerns.

The doctor said this restlessness did not mean anything and was due to physical causes; but Princess Mary thought he
wished to tell
her something, and the fact that her presence always increased his restlessness confirmed her opinion.

He was evidently suffering both physically and mentally. There was no hope of recovery. It was impossible for him to travel, it would not do to let him die on the road. "Would it not be better if the end

did come, the very end?" Princess Mary sometimes thought. Night and day, hardly sleeping at all, she watched him and, terrible to say, often watched him not with hope of finding signs of improvement but wishing to find symptoms of the approach of the end.

Strange as it was to her to acknowledge this feeling in herself, yet there it was. And what seemed still more terrible to her was that since her father's illness began (perhaps even sooner, when she stayed with him expecting something to happen), all the personal desires and hopes that had been forgotten or sleeping within her had awakened. Thoughts that had not entered her mind for years--thoughts of a life free from
the fear of her father, and even the possibility of love and of family happiness--floated continually in her imagination like temptations of the devil. Thrust them aside as she would, questions continually recurred to her as to how she would order her life now, after that. These were temptations of the devil and Princess Mary knew it. She knew that the sole weapon against him was prayer, and she tried to pray. She assumed an attitude of prayer, looked at the icons, repeated the words of a prayer, but she could not pray. She felt that a different world had now taken possession of her--the life of a world of strenuous and free activity, quite opposed to the spiritual world in which till now she had been confined and in which her greatest comfort had been prayer. She could not pray, could not weep, and worldly cares took possession of her.

It was becoming dangerous to remain in Bogucharovo. News of the approach of the French came from all sides, and in one village, ten miles from Bogucharovo,
a homestead had been looted by French marauders.

The doctor insisted on the necessity of moving the prince; the provincial Marshal of the Nobility sent an official to Princess Mary to persuade her to get away as quickly as possible, and the head of the rural police having come to Bogucharovo urged the same thing, saying that the French were only some twenty-five miles away, that French proclamations were circulating in the villages, and that if the princess did not take her father away before the fifteenth, he could not answer for the consequences.

The princess decided to leave on the fifteenth. The cares of preparation and giving orders, for which everyone came to her, occupied her all day. She spent the night of the fourteenth as usual, without undressing, in the room next to the one where the prince lay. Several times, waking up, she heard his groans and muttering, the creak of his bed, and the steps of Tikhon and the doctor when they turned him over. Several times she listened

at the
door, and it seemed to her that his mutterings were louder than usual and that they turned him over oftener. She could not sleep and several times went to the door and listened, wishing to enter but not deciding to do so. Though he did not speak, Princess Mary saw and knew how unpleasant every sign of anxiety on his account was to him. She had noticed with what dissatisfaction he turned from the look she sometimes involuntarily fixed on him. She knew that her going in during the night at an unusual hour would irritate him.

But never had she felt so grieved for him or so much afraid of losing him. She recalled all her life with him and in every word and act of his found an expression of his love of her. Occasionally amid these memories temptations of the devil would surge into her imagination: thoughts of how things would be after his death, and how her new, liberated life would be ordered. But she drove these thoughts away with disgust. Toward morning he became quiet and
she
fell asleep.

She woke late. That sincerity which often comes with waking showed her clearly what chiefly concerned her about her father's illness. On waking she listened to what was going on behind the door and, hearing him groan, said to herself with a sigh that things were still the same.

"But what could have happened? What did I want? I want his death!" she cried with a feeling of loathing for herself.

She washed, dressed, said her prayers, and went out to the porch. In front of it stood carriages without horses and things were being packed into the vehicles.

It was a warm, gray morning. Princess Mary stopped at the porch, still horrified by her spiritual baseness and trying to arrange her thoughts before going to her father. The doctor came downstairs and went out to her.

"He is a little better today," said he. "I was looking for you. One can make out something of what he is saying. His head is clearer. Come in, he is asking for you..."

Princess Mary's heart beat so violently
at this news that she grew
pale and leaned against the wall to keep from falling. To see him, talk to him, feel his eyes on her now that her whole soul was overflowing with those dreadful, wicked temptations, was a torment of joy and terror.

"Come," said the doctor.

Princess Mary entered her father's room and went up to his bed. He was lying on his back propped up high, and his small bony hands with their knotted purple veins were lying on the quilt; his left eye gazed straight before him, his right eye was awry, and his brows and lips motionless. He seemed altogether so thin, small, and pathetic. His face seemed to have shriveled or melted; his features had grown smaller. Princess Mary went up and kissed his hand. His left hand pressed hers so that she understood that he had long been waiting for her to come. He twitched her hand, and his brows and lips quivered angrily.

She looked at him in dismay trying to guess what he wanted of her. When she changed her position so that
his left eye could see her
face he calmed down, not taking his eyes off her for some seconds. Then his lips and tongue moved, sounds came, and he began to speak, gazing timidly and imploringly at her, evidently afraid that she might not understand.

Straining all her faculties Princess Mary looked at him. The comic efforts with which he moved his tongue made her drop her eyes and with difficulty repress the sobs that rose to her throat. He said something, repeating the same words several times. She could not understand them, but tried to guess what he was saying and inquiringly repeated the words he uttered.

"Mmm...ar...ate...ate..." he repeated several times.

It was quite impossible to understand these sounds. The doctor thought he had guessed them, and inquiringly repeated: "Mary, are you afraid?" The prince shook his head, again repeated the same sounds.

"My mind, my mind aches?" questioned Princess Mary.

He made a mumbling sound in confirmation of this, took her hand, and began
pressing it to different parts of his breast as if trying to
find the right place for it.

"Always thoughts... about you... thoughts..." he then uttered much more clearly than he had done before, now that he was sure of being understood.

Princess Mary pressed her head against his hand, trying to hide

her sobs and tears.

He moved his hand over her hair.

"I have been calling you all night..." he brought out.

"If only I had known..." she said through her tears. "I was afraid to come in."

He pressed her hand.

"Weren't you asleep?"

"No, I did not sleep," said Princess Mary, shaking her head.

Unconsciously imitating her father, she now tried to express herself as he did, as much as possible by signs, and her tongue too seemed to move with difficulty.

"Dear one... Dearest..." Princess Mary could not quite make out what he had said, but from his look it was clear that he had uttered a tender caressing word such as he had never used to her before. "Why didn't you come in?"

"And I was
wishing for his death!" thought Princess Mary.

He was silent awhile.

"Thank you... daughter dear!... for all, for all... forgive!... thank you!... forgive!... thank you!..." and tears began to flow from his eyes. "Call Andrew!" he said suddenly, and a childish, timid expression of doubt showed itself on his face as he spoke.

He himself seemed aware that his demand was meaningless. So at least it seemed to Princess Mary.

"I have a letter from him," she replied.

He glanced at her with timid surprise.

"Where is he?"

"He's with the army, Father, at Smolensk."

He closed his eyes and remained silent a long time. Then as if in answer to his doubts and to confirm the fact that now he understood and remembered everything, he nodded his head and reopened his eyes.

"Yes," he said, softly and distinctly. "Russia has perished. They've destroyed her."

And he began to sob, and again tears flowed from his eyes. Princess Mary could no longer restrain herself and wept while she gazed at his face.

Again he closed his eyes. His sobs ceased, he pointed to his eyes, and Tikhon, understanding him, wiped away the tears.

Then he again opened his eyes and said something none of them could understand for a long time, till at last Tikhon understood and repeated it. Princess Mary had sought the meaning of his words in the mood in which he had just been speaking. She thought he was speaking of Russia, or Prince Andrew, of herself, of his grandson, or of his own death, and so she could not guess his words.

"Put on your white dress. I like it," was what he said.

Having understood this Princess Mary sobbed still louder, and the doctor taking her arm led her out to the veranda, soothing her and trying to persuade her to prepare for her journey. When she had left the room the prince again began speaking about his son, about the war, and about the Emperor, angrily twitching his brows and raising his hoarse voice, and then he had a second and final stroke.

Princess Mary stayed on the veranda. The day had cleared, it was hot and sunny. She could understand nothing, think of nothing and feel nothing, except passionate love for her father, love such as she thought she had never felt till that moment. She ran out sobbing into the garden and as far as the pond, along the avenues of young lime trees Prince Andrew had planted.

"Yes... I... I... I wished for his death! Yes, I wanted it to end quicker.... I wished to be at peace.... And what will become of me? What use will peace be when he is no longer here?" Princess Mary murmured, pacing the garden with hurried steps and pressing her hands to her bosom which heaved with convulsive sobs.

When she had completed the tour of the garden, which brought her again to the house, she saw Mademoiselle Bourienne--who had remained at Bogucharovo and did not wish to leave it--coming toward her with a stranger. This was the Marshal of the Nobility of the district, who had come personally to point out to the princess the necessity for her

prompt departure. Princess Mary listened without understanding him; she led him to the house, offered him lunch, and sat down with him. Then, excusing herself, she went to the door of the old prince's room. The doctor came out with an agitated face and said she could not enter.

"Go away, Princess! Go away... go away!"

She returned to the garden and sat down on the grass at the foot of the slope by the pond, where no one could see her. She did not know how long she had been there when she was aroused by the sound of a woman's footsteps running along the path. She rose and saw Dunyasha her maid, who was evidently looking for her, and who stopped suddenly as if in alarm on seeing her mistress.

"Please come, Princess... The Prince," said Dunyasha in a breaking voice.

"Immediately, I'm coming, I'm coming!" replied the princess hurriedly, not giving Dunyasha time to finish what she was saying, and trying to avoid seeing the girl she ran toward the house.

"Princess, it's God's will! You must be prepared for everything," said the Marshal, meeting her at the house door.

"Let me alone; it's not true!" she cried angrily to him.

The doctor tried to stop her. She pushed him aside and ran to her father's door. "Why are these people with frightened faces stopping me? I don't want any of them! And what are they doing here?" she thought. She opened the door and the bright daylight in that previously darkened room startled her. In the room were her nurse and other women. They all drew back from the bed, making way for her. He was still lying on the bed as before, but the stern expression of his quiet face made Princess Mary stop short on the threshold.

"No, he's not dead--it's impossible!" she told herself and approached him, and repressing the terror that seized her, she pressed her lips to his cheek. But she stepped back immediately. All the force of the tenderness she had been feeling for him vanished instantly and was replaced by a feeling of horror at what lay there before her.

"No, he is no more! He is not, but here where he was is something unfamiliar and hostile, some dreadful, terrifying, and repellent mystery!" And hiding her face in her hands, Princess Mary sank into the arms of the doctor, who held her up.

In the presence of Tikhon and the doctor the women washed what had been the prince, tied his head up with a handkerchief that the mouth should not stiffen while open, and with another handkerchief tied together the legs that were already spreading apart. Then they dressed him in uniform with his decorations and placed his shriveled little body on a table. Heaven only knows who arranged all this and when, but it all got done as if of its own accord. Toward night candles were burning round his coffin, a pall was spread over it, the floor was strewn with sprays of juniper, a printed band was tucked in under his shriveled head, and in a corner of the room sat a chanter reading the psalms.

Just as horses shy and snort and gather about a dead horse, so the inmates of the house and strangers crowded into the drawing room round the coffin--the Marshal, the village Elder, peasant women--and all with fixed and frightened eyes, crossing themselves, bowed and kissed the old prince's cold and stiffened hand.

CHAPTER IX

Until Prince Andrew settled in Bogucharovo its owners had always been absentees, and its peasants were of quite a different character from those of Bald Hills. They differed from them in speech, dress, and disposition. They were called steppe peasants. The old prince used to approve of them for their endurance at work when they came to Bald Hills to help with the harvest or to dig ponds, and ditches, but he disliked them for their boorishness.

Prince Andrew's last stay at Bogucharovo, when he introduced hospitals and schools and reduced the quitrent the peasants had to pay, had not softened their disposition but had on the contrary strengthened in them the traits of character the old prince called boorishness.

Various obscure rumors were always current among them: at one time a rumor that they would all be enrolled as Cossacks; at another of a new religion to which they were all to be converted; then of some proclamation of the Tsar's and of an oath to the Tsar Paul in 1797 (in connection with which it was rumored that freedom had been granted them but the landowners had stopped it), then of Peter Fedorovich's return to the throne in seven years' time, when everything would be made free and so "simple" that there would be no

restrictions. Rumors of the war with Bonaparte and his invasion were connected in their minds with the same sort of vague notions of Antichrist, the end of the world, and "pure freedom."

In the vicinity of Bogucharovo were large villages belonging to the crown or to owners whose serfs paid quitrent and could work where they pleased. There were very few resident landlords in the neighborhood and also very few domestic or literate serfs, and in the lives of the peasantry of those parts the mysterious undercurrents in the life of the Russian people, the causes and meaning of which are so baffling to contemporaries, were more clearly and strongly noticeable than among others. One instance, which had occurred some twenty years before, was a movement among the peasants to emigrate to some unknown "warm rivers." Hundreds of peasants, among them the Bogucharovo folk, suddenly began selling their cattle and moving in whole families toward the southeast. As birds migrate to somewhere beyond the sea, so these men with their wives and children streamed to the southeast, to parts where none of them had ever been. They set off in caravans, bought their freedom one by one or ran away, and drove or walked toward the "warm rivers." Many of them were punished, some sent to Siberia, many died of cold and hunger on the road, many returned of their own accord, and the movement died down of itself just as it had sprung up, without apparent reason. But such undercurrents still existed among the people and gathered new forces ready to manifest themselves just as strangely, unexpectedly, and at the same time simply, naturally, and forcibly. Now in 1812, to anyone living in close touch with these people it was apparent that these undercurrents were acting strongly and nearing an eruption.

Alpatych, who had reached Bogucharovo shortly before the old prince's death, noticed an agitation among the peasants, and that contrary to what was happening in the Bald Hills district, where over a radius of forty miles all the peasants were moving away and leaving their villages to be devastated by the Cossacks, the peasants in the steppe region round Bogucharovo were, it was rumored, in touch with the French, received leaflets from them that passed from hand to hand, and did not migrate. He learned from domestic serfs loyal to him that the peasant Karp, who possessed great influence in the village commune and had recently been away driving a government transport, had returned with news that the Cossacks were destroying deserted villages, but that the French did not harm them. Alpatych also knew that on the previous day another peasant had even brought from the village of Visloukhovo, which was occupied by the French, a proclamation by a French general that no harm would be done to the inhabitants, and if they remained they would be paid

for anything taken from them. As proof of this the peasant had brought from Visloukhovo a hundred rubles in notes (he did not know that they were false) paid to him in advance for hay.

More important still, Alpatych learned that on the morning of the very day he gave the village Elder orders to collect carts to move the princess' luggage from Bogucharovo, there had been a village meeting at which it had been decided not to move but to wait. Yet there was no time to waste. On the fifteenth, the day of the old prince's death, the Marshal had insisted on Princess Mary's leaving at once, as it was becoming dangerous.
He had told her that after the sixteenth he could not be responsible for what might happen. On the evening of the day the old prince died the Marshal went away, promising to return next day for the funeral. But this he was unable to do, for he received tidings that the French had unexpectedly advanced, and had barely time to remove his own family and valuables from his estate.

For some thirty years Bogucharovo had been managed by the village Elder, Dron, whom the old prince called by the diminutive "Dronushka."

Dron was one of those physically and mentally vigorous peasants who grow big beards as soon as they are of age and go on unchanged till they are sixty or seventy, without a gray hair or the loss of a tooth, as straight and strong at sixty as at thirty.

Soon after the migration to the "warm rivers," in which he had taken part like the rest, Dron was made village Elder and overseer of Bogucharovo, and had since filled that post irreproachably for twenty-three years. The peasants feared him more than they did their master. The masters, both the old prince and the young, and the steward respected him and jestingly called him "the Minister." During the whole time of his service Dron had never been drunk or ill, never after sleepless nights or the hardest tasks had he shown the least fatigue, and though he could not read he had never forgotten a single money account or the number of quarters of flour in any of the endless cartloads he sold for the prince, nor a single shock of the whole corn crop on any single acre of the Bogucharovo fields.

Alpatych, arriving from the devastated Bald Hills estate, sent for his Dron on the day of the prince's funeral and told him to have twelve horses got ready for the princess' carriages and eighteen carts for the things to be removed from Bogucharovo. Though the peasants paid quitrent, Alpatych thought no difficulty would be made about complying with this order, for there were two hundred and thirty households at work in Bogucharovo

and the peasants were well to do.
But on hearing the order Dron lowered his eyes and remained silent. Alpatych named certain peasants he knew, from whom he told him to take the carts.

Dron replied that the horses of these peasants were away carting. Alpatych named others, but they too, according to Dron, had no horses available: some horses were carting for the government, others were too weak, and others had died for want of fodder. It seemed that no horses could be had even for the carriages, much less for the carting.

Alpatych looked intently at Dron and frowned. Just as Dron was a model village Elder, so Alpatych had not managed the prince's estates for twenty years in vain. He a model steward, possessing in the highest degree the faculty of divining the needs and instincts of those he dealt with. Having glanced at Dron he at once understood that his answers did not express his personal views but the general mood of the Bogucharovo commune, by which the Elder had already been
carried away. But he also knew that Dron, who had acquired property and was hated by the commune, must be hesitating between the two camps: the masters' and the serfs'. He noticed this hesitation in Dron's look and therefore frowned and moved closer up to him.

"Now just listen, Dronushka," said he. "Don't talk nonsense to me. His excellency Prince Andrew himself gave me orders to move all the people away and not leave them with the enemy, and there is an order from the Tsar about it too. Anyone who stays is a traitor to the Tsar. Do you hear?"

"I hear," Dron answered without lifting his eyes.

Alpatych was not satisfied with this reply.

"Eh, Dron, it will turn out badly!" he said, shaking his head.

"The power is in your hands," Dron rejoined sadly.

"Eh, Dron, drop it!" Alpatych repeated, withdrawing his hand from his bosom and solemnly pointing to the floor at Dron's feet. "I can see through you and three yards into the ground under you," he continued, gazing at the floor
in front of Dron.

Dron was disconcerted, glanced furtively at Alpatych and again lowered his eyes.

"You drop this nonsense and tell the people to get ready to leave their homes and go to Moscow and to get carts ready for tomorrow morning for the princess' things. And don't go to any meeting yourself, do you hear?"

Dron suddenly fell on his knees.

"Yakov Alpatych, discharge me! Take the keys from me and discharge me, for Christ's sake!"

"Stop that!" cried Alpatych sternly. "I see through you and three yards under you," he repeated, knowing that his skill in beekeeping, his knowledge of the right time to sow the oats, and the fact that he had been able to retain the old prince's favor for twenty years had long since gained him the reputation of being a wizard, and that the power of seeing three yards under a man is considered an attribute of wizards.

Dron got up and was about to say something, but Alpatych interrupted him.

"What is it you have got into your heads, eh?... What are you thinking of, eh?"

"What am I to do with the people?" said Dron. "They're quite beside themselves; I have already told them..."

"'Told them,' I dare say!" said Alpatych. "Are they drinking?" he asked abruptly.

"Quite beside themselves, Yakov Alpatych; they've fetched another barrel."

"Well, then, listen! I'll go to the police officer, and you tell them so, and that they must stop this and the carts must be got ready."

"I understand."

Alpatych did not insist further. He had managed people for a long time and knew that the chief way to make them obey is to show no suspicion that they can possibly disobey. Having wrung a submissive "I understand" from Dron, Alpatych contented himself with that, though he not only doubted but felt almost certain that without the help of troops the carts would not be forthcoming.

And so it was, for when evening came no carts had been provided.

In the village, outside the drink shop, another meeting was being held, which decided that the horses should be driven out into the woods and the carts should not be provided. Without saying anything of this to the princess, Alpatych had his own belongings taken out of the carts which had arrived from Bald Hills and had those horses got ready for the princess' carriages. Meanwhile he went himself to the police authorities.

CHAPTER X

After her father's funeral Princess Mary shut herself up in her room and did not admit anyone. A maid came to the door to say that Alpatych was asking for orders about their departure. (This was before his talk with Dron.) Princess Mary raised herself on the sofa on which she had been lying and replied through the closed door that she did not mean to go away and begged to be left in peace.

The windows of the room in which she was lying looked westward. She lay on the sofa with her face to the wall, fingering the buttons of the leather cushion and seeing nothing but that cushion, and her confused thoughts were centered on one subject--the irrevocability of death and her own spiritual baseness, which she had not suspected, but which had shown itself during her father's illness. She wished to pray but did not dare to, dared not in her present state of mind address herself to God. She lay for a long time in that position.

The sun had reached the other side of the house, and its slanting rays shone into the open window, lighting up the room and part of the morocco cushion at which Princess Mary was looking. The flow of her thoughts suddenly stopped. Unconsciously she sat up, smoothed her hair, got up, and went to the window, involuntarily inhaling the freshness of the clear but windy evening.

"Yes, you can well enjoy the evening now! He is gone and no one will hinder you," she said to herself, and sinking into a chair she let her head fall on the window sill.

Someone spoke her name in a soft and tender voice from the garden and kissed her head. She looked up. It was Mademoiselle Bourienne in a black dress and weepers. She softly approached

Princess Mary,
sighed, kissed her, and immediately began to cry. The princess looked up at her. All their former disharmony and her own jealousy recurred to her mind. But she remembered too how he had changed of late toward Mademoiselle Bourienne and could not bear to see her, thereby showing how unjust were the reproaches Princess Mary had mentally addressed to her. "Besides, is it for me, for me who desired his death, to condemn anyone?" she thought.

Princess Mary vividly pictured to herself the position of Mademoiselle Bourienne, whom she had of late kept at a distance, but who yet was dependent on her and living in her house. She felt sorry for her and held out her hand with a glance of gentle inquiry. Mademoiselle Bourienne at once began crying again and kissed that hand, speaking of the princess' sorrow and making herself a partner in it. She said her only consolation was the fact that the princess allowed her to share her sorrow, that all the old misunderstandings should
sink into nothing but this great grief; that she felt herself blameless in regard to everyone, and that he, from above, saw her affection and gratitude. The princess heard her, not heeding her words but occasionally looking up at her and listening to the sound of her voice.

"Your position is doubly terrible, dear princess," said Mademoiselle Bourienne after a pause. "I understand that you could not, and cannot, think of yourself, but with my love for you I must do so.... Has Alpatych been to you? Has he spoken to you of going away?" she asked.

Princess Mary did not answer. She did not understand who was to go or where to. "Is it possible to plan or think of anything now? Is it not all the same?" she thought, and did not reply.

"You know, chere Marie," said Mademoiselle Bourienne, "that we are in danger--are surrounded by the French. It would be dangerous to move now. If we go we are almost sure to be taken prisoners, and God knows..."

Princess Mary looked at her companion without understanding
what she
was talking about.

"Oh, if anyone knew how little anything matters to me now," she said. "Of course I would on no account wish to go away from him.... Alpatych did say something about going.... Speak to him; I can do nothing, nothing, and don't want to...."

"I've spoken to him. He hopes we should be in time to get away

tomorrow, but I think it would now be better to stay here," said Mademoiselle Bourienne. "Because, you will agree, chere Marie, to fall into the hands of the soldiers or of riotous peasants would be terrible."

Mademoiselle Bourienne took from her reticule a proclamation (not printed on ordinary Russian paper) of General Rameau's, telling people not to leave their homes and that the French authorities would afford them proper protection. She handed this to the princess.

"I think it would be best to appeal to that general," she continued, "and and am sure that all due respect would be shown you."

Princess Mary read the paper, and her face began to quiver with stifled sobs.

"From whom did you get this?" she asked.

"They probably recognized that I am French, by my name," replied Mademoiselle Bourienne blushing.

Princess Mary, with the paper in her hand, rose from the window and with a pale face went out of the room and into what had been Prince Andrew's study.

"Dunyasha, send Alpatych, or Dronushka, or somebody to me!" she said, "and tell Mademoiselle Bourienne not to come to me," she added, hearing Mademoiselle Bourienne's voice. "We must go at once, at once!" she said, appalled at the thought of being left in the hands of the French.

"If Prince Andrew heard that I was in the power of the French! That I, the daughter of Prince Nicholas Bolkonski, asked General Rameau for protection and accepted his favor!" This idea horrified her, made her shudder, blush, and feel such a rush of anger and pride as she had never experienced before. All that was distressing, and especially all that was humiliating, in her position rose vividly to her mind. "They, the French, would settle in this house: M. le General Rameau would occupy Prince Andrew's study and amuse himself by looking through and reading his letters and papers. Mademoiselle Bourienne would do the honors of Bogucharovo for him. I should be given a small room as a favor, the soldiers would violate my father's newly dug grave to steal his crosses and stars, they would tell me of their victories over the Russians, and would pretend to sympathize with my sorrow..." thought Princess Mary, not thinking her own thoughts but feeling bound to think like her father and her

brother. For herself she did not care where she remained or what happened to her, but she felt herself the representative of her dead father and of Prince Andrew. Involuntarily she thought their thoughts and felt their feelings. What they would have said and what they would have done she felt bound to say and do. She went into Prince Andrew's study, trying to enter completely into his ideas, and
considered her position.

The demands of life, which had seemed to her annihilated by her father's death, all at once rose before her with a new, previously unknown force and took possession of her.

Agitated and flushed she paced the room, sending now for Michael Ivanovich and now for Tikhon or Dron. Dunyasha, the nurse, and the other maids could not say in how far Mademoiselle Bourienne's statement was correct. Alpatych was not at home, he had gone to the police. Neither could the architect Michael Ivanovich, who on being sent for came in with sleepy eyes, tell Princess Mary anything. With just the same smile of agreement with which for fifteen years he had been accustomed to answer the old prince without expressing views of his own, he now replied to Princess Mary, so that nothing definite could be got from his answers. The old valet Tikhon, with sunken, emaciated face that bore the stamp of inconsolable grief, replied: "Yes, Princess" to all Princess Mary's questions and hardly refrained
from sobbing as he looked at her.

At length Dron, the village Elder, entered the room and with a deep bow to Princess Mary came to a halt by the doorpost.

Princess Mary walked up and down the room and stopped in front of him.

"Dronushka," she said, regarding as a sure friend this Dronushka who always used to bring a special kind of gingerbread from his visit to the fair at Vyazma every year and smilingly offer it to her, "Dronushka, now since our misfortune..." she began, but could not go on.

"We are all in God's hands," said he, with a sigh.

They were silent for a while.

"Dronushka, Alpatych has gone off somewhere and I have no one to turn to. Is true, as they tell me, that I can't even go away?"

"Why shouldn't you go away, your excellency? You can go," said Dron.

"I was told it would be dangerous because of the enemy. Dear friend, I can do nothing. I understand nothing. I have nobody! I want to go away tonight or early tomorrow morning."

Dron paused. He looked askance at Princess Mary and said: "There are no horses; I told Yakov Alpatych so."

"Why are there none?" asked the princess.

"It's all God's scourge," said Dron. "What horses we had have been taken for the army or have died--this is such a year! It's not a case of feeding horses--we may die of hunger ourselves! As it is, some go three days without eating. We've nothing, we've been ruined."

Princess Mary listened attentively to what he told her.

"The peasants are ruined? They have no bread?" she asked.

"They're dying of hunger," said Dron. "It's not a case of carting."

"But why didn't you tell me, Dronushka? Isn't it possible to help them? I'll do all I can...."

To Princess Mary it was strange that now, at a moment when such sorrow was filling her soul, there could be rich people and poor, and the rich could refrain from helping the poor. She had heard vaguely that there was such a thing as "landlord's corn" which was sometimes given to the peasants. She also knew that neither her father nor her brother would refuse to help the peasants in need, she only feared to make some mistake in speaking about the distribution of the grain she wished to give. She was glad such cares presented themselves, enabling her without scruple to forget her own grief. She began asking Dron about the peasants' needs and what there was in Bogucharovo that belonged to the landlord.

"But we have grain belonging to my brother?" she said.

"The landlord's grain is all safe," replied Dron proudly. "Our prince did not order it to be sold."

"Give it to the peasants, let them have all they need; I give you leave in my brother's name," said she.

Dron made no answer but sighed deeply.

"Give them that corn if there is enough of it. Distribute it all. I give this order in my brother's name; and tell them that what is ours is theirs. We do not grudge them anything. Tell them so."

Dron looked intently at the princess while she was speaking.

"Discharge me, little mother, for God's sake! Order the keys to be taken from me," said he. "I have served twenty-three years and have done no wrong. Discharge me, for God's sake!"

Princess Mary did not understand what he wanted of her or why he was asking to be discharged. She replied that she had never doubted his devotion and that she was ready to do anything for him and for the peasants.

CHAPTER XI

An hour later Dunyasha came to tell the princess that Dron had come, and all the peasants had assembled at the barn by the princess' order and wished to have word with their mistress.

"But I never told them to come," said Princess Mary. "I only told Dron to let them have the grain."

"Only, for God's sake, Princess dear, have them sent away and don't go out to them. It's all a trick," said Dunyasha, "and when Yakov Alpatych returns let us get away... and please don't..."

"What is a trick?" asked Princess Mary in surprise.

"I know it is, only listen to me for God's sake! Ask nurse too. They say they don't agree to leave Bogucharovo as you ordered."

"You're making some mistake. I never ordered them to go away," said Princess Mary. "Call Dronushka."

Dron came and confirmed Dunyasha's words; the peasants had come by the princess' order.

"But I never sent for them," declared the princess. "You must have given my message wrong. I only said that you were to give them the

grain."

Dron only sighed in reply.

"If you order it they will go away," said he.

"No, no. I'll go out to them," said Princess Mary, and in spite of the nurse's and Dunyasha's protests she went out into the porch; Dron, Dunyasha, the nurse, and Michael Ivanovich following her.

"They probably think I am offering them the grain to bribe them to remain here, while I myself go away leaving them to the mercy of the French," thought Princess Mary. "I will offer them monthly rations and housing at our Moscow estate. I am sure Andrew would do even more in my place," she thought as she went out in the twilight toward the crowd standing on the pasture by the barn.

The men crowded closer together, stirred, and rapidly took off their hats. Princess Mary lowered her eyes and, tripping over her skirt, came close up to them. So many different eyes, old and young, were fixed on her, and there were so many different faces, that she could not distinguish any of them and, feeling that she must speak to them all at once, did not know how to do it. But again the sense that she represented her father and her brother gave her courage, and she boldly began her speech.

"I am very glad you have come," she said without raising her eyes, and feeling her heart beating quickly and violently. "Dronushka tells me that the war has ruined you. That is our common misfortune, and I shall grudge nothing to help you. I am myself going away because it is dangerous here... the enemy is near... because... I am giving you everything, my friends, and I beg you to take everything, all our grain, so that you may not suffer want! And if you have been told that I am giving you the grain to keep you here--that is not true. On the contrary, I ask you to go with all your belongings to our estate near Moscow, and I promise you I will see to it that there you shall want for nothing. You shall be given food and lodging."

The princess stopped. Sighs were the only sound heard in the crowd.

"I am not doing this on my own account," she continued, "I do it in the name of my dead father, who was a good master to you, and of my brother and his son."

Again she paused. No one broke the silence.

"Ours is a common misfortune and we will share it together. All that is mine is yours," she concluded, scanning the faces before her.

All eyes were gazing at her with one and the same expression. She could not fathom whether it was curiosity, devotion, gratitude, or apprehension and distrust--but the expression on all the faces was identical.

"We are all very thankful for your bounty, but it won't do for us to take the landlord's grain," said a voice at the back of the crowd.

"But
why not?" asked the princess.

No one replied and Princess Mary, looking round at the crowd, found that every eye she met now was immediately dropped.

"But why don't you want to take it?" she asked again.

No one answered.

The silence began to oppress the princess and she tried to catch someone's eye.

"Why don't you speak?" she inquired of a very old man who stood just in front of her leaning on his stick. "If you think something more is wanted, tell me! I will do anything," said she, catching his eye.

But as if this angered him, he bent his head quite low and muttered:

"Why should we agree? We don't want the grain."

"Why should we give up everything? We don't agree. Don't agree.... We are sorry for you, but we're not willing. Go away yourself, alone..." came from various sides of the crowd.

And again all the faces in that crowd bore an identical expression, though now it was certainly not an expression of curiosity or gratitude, but of angry resolve.

"But you can't
have understood me," said Princess Mary with a sad smile. "Why don't you want to go? I promise to house and feed you, while here the enemy would ruin you..."

But her voice was drowned by the voices of the crowd.

"We're not willing. Let them ruin us! We won't take your grain. We

don't agree."

Again Princess Mary tried to catch someone's eye, but not a single eye in the crowd was turned to her; evidently they were all trying to avoid her look. She felt strange and awkward.

"Oh yes, an artful tale! Follow her into slavery! Pull down your houses and go into bondage! I dare say! 'I'll give you grain, indeed!' she says," voices in the crowd were heard saying.

With drooping head Princess Mary left the crowd and went back to the house. Having repeated her order to Dron to have horses ready for her departure next morning, she went to her room and remained alone with her own thoughts.

CHAPTER XII

For a long time that night Princess Mary sat by the open window of her room hearing the sound of the peasants' voices that reached her from the village, but it was not of them she was thinking. She felt that she could not understand them however much she might think about them. She thought only of one thing, her sorrow, which, after the break caused by cares for the present, seemed already to belong to the past. Now she could remember it and weep or pray.

After sunset the wind had dropped. The night was calm and fresh. Toward midnight the voices began to subside, a cock crowed, the full moon began to show from behind the lime trees, a fresh white dewy mist began to rise, and stillness reigned over the village and the house.

Pictures of the near past--her father's illness and last moments-rose one after another to her memory. With mournful pleasure she now lingered over these images, repelling with horror only the last one, the picture of his death, which she felt she could not contemplate even in imagination at this still and mystic hour of night. And these pictures presented themselves to her so clearly and in such detail that they seemed now present, now past, and now future.

She vividly recalled the moment when he had his first stroke and was being dragged along by his armpits through the garden at Bald Hills, muttering something with his helpless tongue, twitching his gray

eyebrows and looking uneasily and timidly at her.

"Even then he wanted to tell me what he told me the day he died," she thought. "He had always thought what he said then." And she recalled in all its detail the night at Bald Hills before he had the last stroke, when with a foreboding of disaster she had remained at home against his will. She had not slept and had stolen downstairs on tiptoe, and going to the door of the conservatory where he slept that night had listened at the door. In a suffering and weary voice he was saying something to Tikhon, speaking of the Crimea and its warm nights and of the Empress. Evidently he had wanted to talk. "And why didn't he call me? Why
didn't he let me be there instead of Tikhon?"
Princess Mary had thought and thought again now. "Now he will never tell anyone what he had in his soul. Never will that moment return for him or for me when he might have said all he longed to say, and not Tikhon but I might have heard and understood him. Why didn't I enter the room?" she thought. "Perhaps he would then have said to me what he said the day he died. While talking to Tikhon he asked about me twice. He wanted to see me, and I was standing close by, outside the door. It was sad and painful for him to talk to Tikhon who did not understand him. I remember how he began speaking to him about Lise as if she were alive--he had forgotten she was dead--and Tikhon reminded him that she was no more, and he shouted, 'Fool!' He was greatly depressed. From behind the door I heard how he lay down on his bed groaning and loudly exclaimed, 'My God!' Why didn't I go in then? What could he have done to me? What could I have lost? And perhaps he
would then have
been comforted and would have said that word to me." And Princess Mary uttered aloud the caressing word he had said to her on the day of his death. "Dear-est!" she repeated, and began sobbing, with tears that relieved her soul. She now saw his face before her. And not the face she had known ever since she could remember and had always seen at a distance, but the timid, feeble face she had seen for the first time quite closely, with all its wrinkles and details, when she stooped near to his mouth to catch what he said.

"Dear-est!" she repeated again.

"What was he thinking when he uttered that word? What is he thinking now?" This question suddenly presented itself to her, and in answer she saw him before her with the expression that was on his face as he lay in his coffin with his chin bound up with a white handkerchief. And the horror that had seized her when she touched him and convinced herself that that was not he, but something mysterious and horrible, seized her
again. She tried to think of something else and
to pray, but could do neither. With wide-open eyes she gazed at the

moonlight and the shadows, expecting every moment to see his dead face, and she felt that the silence brooding over the house and within it held her fast.

"Dunyasha," she whispered. "Dunyasha!" she screamed wildly, and tearing herself out of this silence she ran to the servants' quarters to meet her old nurse and the maidservants who came running toward her.

CHAPTER XIII

On the seventeenth of August Rostov and Ilyin, accompanied by Lavrushka who had just returned from captivity and by an hussar orderly, left their quarters at Yankovo, ten miles from Bogucharovo, and went for a ride--to try a new horse Ilyin had bought and to find out whether there was any hay to be had in the villages.

For the last three days Bogucharovo had lain between the two hostile armies, so that it was as easy for the Russian rearguard to get to it as for the French vanguard; Rostov, as a careful squadron commander, wished to take such provisions as remained at Bogucharovo before the French could get them.

Rostov and Ilyin were in the merriest of moods. On the way to Bogucharovo, a princely estate with a dwelling house and farm where they hoped to find many domestic serfs and pretty girls, they questioned Lavrushka about Napoleon and laughed at his stories, and raced one another to try Ilyin's horse.

Rostov had no idea that the village he was entering was the property of that very Bolkonski who had been engaged to his sister.

Rostov and Ilyin gave rein to their horses for a last race along the incline before reaching Bogucharovo, and Rostov, outstripping Ilyin, was the first to gallop into the village street.

"You're first!" cried Ilyin, flushed.

"Yes, always first both on the grassland and here," answered Rostov, stroking his heated Donets horse.

"And I'd have won on my Frenchy, your excellency," said Lavrushka

from behind, alluding to his shabby cart horse, "only I didn't wish to mortify you."

They rode at a footpace to the barn, where a large crowd of peasants was standing.

Some of the men bared their heads, others stared at the new arrivals without doffing their caps. Two tall old peasants with wrinkled faces and scanty beards emerged from the tavern, smiling, staggering, and singing some incoherent song, and approached the officers.

"Fine fellows!" said Rostov laughing. "Is there any hay here?"

"And how like one another," said Ilyin.

"A mo-o-st me-r-r-y co-o-m-pa...!" sang one of the peasants with a blissful smile.

One of the men came out of the crowd and went up to Rostov.

"Who do you belong to?" he asked.

"The French," replied Ilyin jestingly, "and here is Napoleon himself"--and he pointed to Lavrushka.

"Then you are Russians?" the peasant asked again.

"And is there a large force of you here?" said another, a short man, coming up.

"Very large," answered Rostov. "But why have you collected here?" he added. "Is it a holiday?"

"The old men have met to talk over the business of the commune," replied the peasant, moving away.

At that moment, on the road leading from the big house, two women and a man in a white hat were seen coming toward the officers.

"The one in pink is mine, so keep off!" said Ilyin on seeing Dunyasha running resolutely toward him.

"She'll be ours!" said Lavrushka to Ilyin, winking.

"What do you want, my pretty?" said Ilyin with a smile.

"The princess ordered me to ask your regiment and your name."

"This is Count Rostov, squadron commander, and I am your humble servant."

"Co-o-om-pa-ny!" roared the tipsy peasant with a beatific smile as he looked at Ilyin talking to the girl. Following Dunyasha, Alpatych advanced to Rostov, having bared his head while still at a distance.

"May I make bold to trouble your honor?" said he respectfully, but with a shade of contempt for the youthfulness of this officer and with a hand thrust into his bosom. "My mistress, daughter of General in Chief Prince
Nicholas Bolkonski who died on the fifteenth of this month, finding herself in difficulties owing to the boorishness of these people"--he pointed to the peasants--"asks you to come up to the house.... Won't you, please, ride on a little farther," said Alpatych with a melancholy smile, "as it is not convenient in the presence of...?" He pointed to the two peasants who kept as close to him as horseflies to a horse.

"Ah!... Alpatych... Ah, Yakov Alpatych... Grand! Forgive us for Christ's sake, eh?" said the peasants, smiling joyfully at him.

Rostov looked at the tipsy peasants and smiled.

"Or perhaps they amuse your honor?" remarked Alpatych with a staid air, as he pointed at the old men with his free hand.

"No, there's not much to be amused at here," said Rostov, and rode on a little way. "What's the matter?" he asked.

"I make bold to inform your honor that the rude peasants here don't wish to let the mistress leave the estate, and threaten to unharness her horses, so that though
everything has been packed up since morning, her excellency cannot get away."

"Impossible!" exclaimed Rostov.

"I have the honor to report to you the actual truth," said Alpatych.

Rostov dismounted, gave his horse to the orderly, and followed Alpatych to the house, questioning him as to the state of affairs. It appeared that the princess' offer of corn to the peasants the previous day, and her talk with Dron and at the meeting, had actually had so bad an effect that Dron had finally given up the

keys and joined the peasants and had not appeared when Alpatych sent for him; and that in the morning when the princess gave orders to harness for her journey, the peasants had come in a large crowd to the barn and sent word that they would not let her leave the village: that there was an order not to move, and that they would unharness the horses. Alpatych had gone out to admonish them, but was told (it was chiefly Karp who did the talking, Dron not showing himself in the crowd) that they
could not let the princess go, that there was an
order to the contrary, but that if she stayed they would serve her as before and obey her in everything.

At the moment when Rostov and Ilyin were galloping along the road, Princess Mary, despite the dissuasions of Alpatych, her nurse, and the maids, had given orders to harness and intended to start, but when the cavalrymen were espied they were taken for Frenchmen, the coachman ran away, and the women in the house began to wail.

"Father! Benefactor! God has sent you!" exclaimed deeply moved voices as Rostov passed through the anteroom.

Princess Mary was sitting helpless and bewildered in the large sitting room, when Rostov was shown in. She could not grasp who he was and why he had come, or what was happening to her. When she saw his Russian face, and by his walk and the first words he uttered recognized him as a man of her own class, she glanced at him with her deep radiant look and began speaking in a voice that faltered and trembled
with emotion. This meeting immediately struck Rostov as a romantic event. "A helpless girl overwhelmed with grief, left to the mercy of coarse, rioting peasants! And what a strange fate sent me here! What gentleness and nobility there are in her features and expression!" thought he as he looked at her and listened to her timid story.

When she began to tell him that all this had happened the day after her father's funeral, her voiced trembled. She turned away, and then, as if fearing he might take her words as meant to move him to pity, looked at him with an apprehensive glance of inquiry. There were tears in Rostov's eyes. Princess Mary noticed this and glanced gratefully at him with that radiant look which caused the plainness of her face to be forgotten.

"I cannot express, Princess, how glad I am that I happened to ride here and am able to show my readiness to serve you," said Rostov, rising. "Go when you please, and I give you my word of honor that no one shall dare to cause you

annoyance if only you will allow me to act as your escort." And bowing respectfully, as if to a lady of royal blood, he moved toward the door.

Rostov's deferential tone seemed to indicate that though he would consider himself happy to be acquainted with her, he did not wish to take advantage of her misfortunes to intrude upon her.

Princess Mary understood this and appreciated his delicacy.

"I am very, very grateful to you," she said in French, "but I hope it was all a misunderstanding and that no one is to blame for it." She suddenly began to cry.

"Excuse me!" she said.

Rostov, knitting his brows, left the room with another low bow.

CHAPTER XIV

"Well, is she pretty? Ah, friend--my pink one is delicious; her name is Dunyasha...."

But on glancing at Rostov's face Ilyin stopped short. He saw that his hero and commander was following quite a different train of thought.

Rostov glanced angrily at Ilyin and without replying strode off with rapid steps to the village.

"I'll show them; I'll give it to them, the brigands!" said he to himself.

Alpatych at a gliding trot, only just managing not to run, kept up with him with difficulty.

"What decision have you been pleased to come to?" said he.

Rostov stopped and, clenching his fists, suddenly and sternly turned on Alpatych.

"Decision? What decision? Old dotard!..." cried he. "What have you

been about? Eh? The peasants are rioting, and you can't manage them? You're a traitor yourself! I know you. I'll flay you all alive!..." And as if afraid of wasting his store of anger, he left Alpatych and went rapidly forward. Alpatych, mastering his offended feelings, kept pace with Rostov at a gliding gait and continued to impart his views. He said the peasants were obdurate and that at the present moment it would be imprudent to "overresist" them without an armed force, and would it not be better first to send for the military?

"I'll give them armed force... I'll 'overresist' them!" uttered Rostov meaninglessly, breathless with irrational animal fury and the need to vent it.

Without considering what he would do he moved unconciously with quick, resolute steps toward the crowd. And the nearer he drew to it the more Alpatych felt that this unreasonable action might produce good results. The peasants in the crowd were similarly impressed when they saw Rostov's rapid, firm steps and resolute, frowning face.

After the hussars had come to the village and Rostov had gone to see the princess, a certain confusion and dissension had arisen among the crowd. Some of the peasants said that these new arrivals were Russians and might take it amiss that the mistress was being detained. Dron was of this opinion, but as soon as he expressed it Karp and others attacked their ex-Elder.

"How many years have you been fattening on the commune?" Karp shouted at him. "It's all one to you! You'll dig up your pot of money and take it away with you.... What does it matter to you whether our homes are ruined or not?"

"We've been told to keep order, and that no one is to leave their homes or take away a single grain, and that's all about it!" cried another.

"It was your son's turn to be conscripted, but no fear! You begrudged your lump of a son," a little old man suddenly began attacking Dron--"and so they took my Vanka to be shaved for a soldier! But we all have to die."

"To be sure, we all have to die. I'm not against the commune," said Dron.

"That's it--not against it! You've filled your belly...."

The two tall peasants had their say. As soon as Rostov, followed

by Ilyin, Lavrushka, and Alpatych, came up to the crowd, Karp, thrusting his fingers into his belt and smiling a little, walked to the front. Dron on the contrary retired to the rear and the crowd drew closer together.

"Who is your Elder here? Hey?" shouted Rostov, coming up to the crowd with quick steps.

"The Elder? What do you want with him?..." asked Karp.

But before the words were well out of his mouth, his cap flew off and a fierce
blow jerked his head to one side.

"Caps off, traitors!" shouted Rostov in a wrathful voice. "Where's the Elder?" he cried furiously.

"The Elder.... He wants the Elder!... Dron Zakharych, you!" meek and flustered voices here and there were heard calling and caps began to come off their heads.

"We don't riot, we're following the orders," declared Karp, and at that moment several voices began speaking together.

"It's as the old men have decided--there's too many of you giving orders."

"Arguing? Mutiny!... Brigands! Traitors!" cried Rostov unmeaningly in a voice not his own, gripping Karp by the collar. "Bind him, bind him!" he shouted, though there was no one to bind him but Lavrushka and Alpatych.

Lavrushka, however, ran up to Karp and seized him by the arms from behind.

"Shall I call up our men from beyond the hill?" he called out.

Alpatych turned to the peasants and ordered two of them by name to come and bind Karp. The men obediently came out of the crowd and began taking off
their belts.

"Where's the Elder?" demanded Rostov in a loud voice.

With a pale and frowning face Dron stepped out of the crowd.

"Are you the Elder? Bind him, Lavrushka!" shouted Rostov, as if that order, too, could not possibly meet with any opposition.

And in fact two more peasants began binding Dron, who took off his own belt and handed it to them, as if to aid them.

"And you all listen to me!" said Rostov to the peasants. "Be off to your houses at once, and don't let one of your voices be heard!"

"Why, we've not done any harm! We did it just out of foolishness. It's all nonsense... I said then that it was not in order," voices were heard bickering with one another.

"There! What did I say?" said Alpatych, coming into his own again. "It's wrong, lads!"

"All our stupidity, Yakov Alpatych," came the answers, and the crowd began at once to disperse through the village.

The two bound men were led off to the master's house. The two drunken peasants followed them.

"Aye, when I look
at you!..." said one of them to Karp.

"How can one talk to the masters like that? What were you thinking of, you fool?" added the other--"A real fool!"

Two hours later the carts were standing in the courtyard of the Bogucharovo house. The peasants were briskly carrying out the proprietor's goods and packing them on the carts, and Dron, liberated at Princess Mary's wish from the cupboard where he had been confined, was standing in the yard directing the men.

"Don't put it in so carelessly," said one of the peasants, a man with a round smiling face, taking a casket from a housemaid. "You know it has cost money! How can you chuck it in like that or shove it under the cord where it'll get rubbed? I don't like that way of doing things. Let it all be done properly, according to rule. Look here, put it under the bast matting and cover it with hay--that's the way!"

"Eh, books, books!" said another peasant, bringing out Prince Andrew's library cupboards. "Don't catch up against it! It's
heavy,
lads--solid books."

"Yes, they worked all day and didn't play!" remarked the tall, round-faced peasant gravely, pointing with a significant wink at the dictionaries that were on the top.

Unwilling to obtrude himself on the princess, Rostov did not go back to the house but remained in the village awaiting her departure. When her carriage drove out of the house, he mounted and accompanied her eight miles from Bogucharovo to where the road was occupied by our troops. At the inn at Yankovo he respectfully took leave of her, for the first time permitting himself to kiss her hand.

"How can you speak so!" he blushingly replied to Princess Mary's expressions of gratitude for her deliverance, as she termed what had occurred. "Any police officer would have done as much! If we had had only peasants to fight, we should not have let the enemy come so far," said he with a sense of shame and wishing to change the subject. "I am only happy to have had the opportunity of making your acquaintance. Good-by,
Princess. I wish you happiness and consolation and hope to meet you again in happier circumstances. If you don't want to make me blush, please don't thank me!"

But the princess, if she did not again thank him in words, thanked him with the whole expression of her face, radiant with gratitude and tenderness. She could not believe that there was nothing to thank him for. On the contrary, it seemed to her certain that had he not been there she would have perished at the hands of the mutineers and of the French, and that he had exposed himself to terrible and obvious danger to save her, and even more certain was it that he was a man of lofty and noble soul, able to understand her position and her sorrow. His kind, honest eyes, with the tears rising in them when she herself had begun to cry as she spoke of her loss, did leave her memory.

When she had taken leave of him and remained alone she suddenly felt her eyes filling with tears, and then not for the first time the strange
question presented itself to her: did she love him?

On the rest of the way to Moscow, though the princess' position was not a cheerful one, Dunyasha, who went with her in the carriage, more than once noticed that her mistress leaned out of the window and smiled at something with an expression of mingled joy and sorrow.

"Well, supposing I do love him?" thought Princess Mary.

Ashamed as she was of acknowledging to herself that she had fallen in love with a man who would perhaps never love her, she comforted herself with the thought that no one would ever know it and that she would not be to blame if, without ever speaking of it to anyone, she continued to the end of her life to love the man with whom she had

fallen in love for the first and last time in her life.

Sometimes when she recalled his looks, his sympathy, and his words, happiness did not appear impossible to her. It was at those moments that Dunyasha noticed her smiling as she looked out of the carriage window.

"Was it not fate that brought him to Bogucharovo, and at that very moment?" thought Princess Mary. "And that caused his sister to refuse my brother?" And in all this Princess Mary saw the hand of Providence.

The impression the princess made on Rostov was a very agreeable one. To remember her gave him pleasure, and when his comrades, hearing of his adventure at Bogucharovo, rallied him on having gone to look for hay and having picked up one of the wealthiest heiresses in Russia, he grew angry. It made him angry just because the idea of marrying the gentle Princess Mary, who was attractive to him and had an enormous fortune, had against his will more than once entered his head. For himself personally Nicholas could not wish for a better wife: by marrying her he would make the countess his mother happy, would be able to put his father's affairs in order, and would even--he felt it-ensure Princess Mary's happiness.

But Sonya? And his plighted word? That was why Rostov grew angry when he was rallied about Princess Bolkonskaya.

CHAPTER XV

On receiving command of the armies Kutuzov remembered Prince Andrew and sent an order for him to report at headquarters.

Prince Andrew arrived at Tsarevo-Zaymishche on the very day and at the very hour that Kutuzov was reviewing the troops for the first time. He stopped in the village at the priest's house in front of which stood the commander in chief's carriage, and he sat down on the bench at the gate awaiting his Serene Highness, as everyone now called Kutuzov. From the field beyond the village came now sounds of regimental music and now the roar of many voices shouting "Hurrah!" to the new commander in chief. Two orderlies, a courier and a major-domo, stood near by, some ten paces from Prince Andrew, availing

themselves of Kutuzov's absence and of the fine weather. A short, swarthy lieutenant colonel of hussars with thick mustaches and whiskers rode up to the gate and, glancing at Prince Andrew, inquired whether his Serene Highness
was putting up there and
whether he would soon be back.

Prince Andrew replied that he was not on his Serene Highness' staff but was himself a new arrival. The lieutenant colonel turned to a smart orderly, who, with the peculiar contempt with which a commander in chief's orderly speaks to officers, replied:

"What? His Serene Highness? I expect he'll be here soon. What do you want?"

The lieutenant colonel of hussars smiled beneath his mustache at the orderly's tone, dismounted, gave his horse to a dispatch runner, and approached Bolkonski with a slight bow. Bolkonski made room for him on the bench and the lieutenant colonel sat down beside him.

"You're also waiting for the commander in chief?" said he. "They say he weceives evewyone, thank God!... It's awful with those sausage eaters! Ermolov had weason to ask to be pwomoted to be a German! Now p'waps Wussians will get a look in. As it was, devil only knows what was happening. We kept wetweating and wetweating. Did you take part
in
the campaign?" he asked.

"I had the pleasure," replied Prince Andrew, "not only of taking part in the retreat but of losing in that retreat all I held dear--not to mention the estate and home of my birth--my father, who died of grief. I belong to the province of Smolensk."

"Ah? You're Pwince Bolkonski? Vewy glad to make your acquaintance! I'm Lieutenant Colonel Denisov, better known as 'Vaska,'" said Denisov, pressing Prince Andrew's hand and looking into his face with a particularly kindly attention. "Yes, I heard," said he sympathetically, and after a short pause added: "Yes, it's Scythian warfare. It's all vewy well--only not for those who get it in the neck. So you are Pwince Andwew Bolkonski?" He swayed his head. "Vewy pleased, Pwince, to make your acquaintance!" he repeated again, smiling sadly, and he again pressed Prince Andrew's hand.

Prince Andrew knew Denisov from what Natasha had told him of her first suitor. This memory carried him sadly and sweetly back to
those painful
feelings of which he had not thought lately, but which still found place in his soul. Of late he had received so many new and

very serious impressions--such as the retreat from Smolensk, his visit to Bald Hills, and the recent news of his father's death--and had experienced so many emotions, that for a long time past those memories had not entered his mind, and now that they did, they did not act on him with nearly their former strength. For Denisov, too, the memories awakened by the name of Bolkonski belonged to a distant, romantic past, when after supper and after Natasha's singing he had proposed to a little girl of fifteen without realizing what he was doing. He smiled at the recollection of that time and of his love for Natasha, and passed at once to what now interested him passionately and exclusively. This was a plan of campaign he had devised while serving at the outposts during the retreat. He had proposed that plan to Barclay de Tolly and now wished to propose it to Kutuzov.

The plan was based on the fact that the French line of operation was too extended, and it proposed that instead of, or concurrently with, action on the front to bar the advance of the French, we should attack their line of communication. He began explaining his plan to Prince Andrew.

"They can't hold all that line. It's impossible. I will undertake to bweak thwough. Give me five hundwed men and I will bweak the line, that's certain! There's only one way--guewilla warfare!"

Denisov rose and began gesticulating as he explained his plan to Bolkonski. In the midst of his explanation shouts were heard from the army, growing more incoherent and more diffused, mingling with music and songs and coming from the field where the review was held. Sounds of hoofs and shouts were nearing the village.

"He's coming! He's coming!" shouted a Cossack standing at the gate.

Bolkonski and Denisov moved to the gate, at which a knot of soldiers (a guard of honor) was standing, and they saw Kutuzov coming down the street mounted on a rather small sorrel horse. A huge suite of generals rode behind him. Barclay was riding almost beside him, and a crowd of officers ran after and around them shouting, "Hurrah!"

His adjutants galloped into the yard before him. Kutuzov was impatiently urging on his horse, which ambled smoothly under his weight, and he raised his hand to his white Horse Guard's cap with a red band and no peak, nodding his head continually. When he came up to the guard of honor, a fine set of Grenadiers mostly wearing decorations, who were giving him the salute, he looked at them silently and attentively for nearly a minute with the steady gaze of a commander and then turned to the crowd of generals and officers surrounding him. Suddenly his face assumed a subtle expression, he

shrugged his shoulders with an air of perplexity.

"And with such fine fellows to retreat and retreat! Well, good-by, General," he added, and rode into the yard past Prince Andrew and Denisov.

"Hurrah!
hurrah! hurrah!" shouted those behind him.

Since Prince Andrew had last seen him Kutuzov had grown still more corpulent, flaccid, and fat. But the bleached eyeball, the scar, and the familiar weariness of his expression were still the same. He was wearing the white Horse Guard's cap and a military overcoat with a whip hanging over his shoulder by a thin strap. He sat heavily and swayed limply on his brisk little horse.

"Whew... whew... whew!" he whistled just audibly as he rode into the yard. His face expressed the relief of relaxed strain felt by a man who means to rest after a ceremony. He drew his left foot out of the stirrup and, lurching with his whole body and puckering his face with the effort, raised it with difficulty onto the saddle, leaned on his knee, groaned, and slipped down into the arms of the Cossacks and adjutants who stood ready to assist him.

He pulled himself together, looked round, screwing up his eyes, glanced at Prince Andrew, and, evidently not recognizing
him, moved
with his waddling gait to the porch. "Whew... whew... whew!" he whistled, and again glanced at Prince Andrew. As often occurs with old men, it was only after some seconds that the impression produced by Prince Andrew's face linked itself up with Kutuzov's remembrance of his personality.

"Ah, how do you do, my dear prince? How do you do, my dear boy? Come along..." said he, glancing wearily round, and he stepped onto the porch which creaked under his weight.

He unbuttoned his coat and sat down on a bench in the porch.

"And how's your father?"

"I received news of his death, yesterday," replied Prince Andrew abruptly.

Kutuzov looked at him with eyes wide open with dismay and then took off his cap and crossed himself:

"May the kingdom of Heaven be his! God's will be done to us all!" He

sighed deeply, his whole chest heaving, and was silent for a while. "I loved him and respected him, and sympathize with you with all my heart."

He embraced Prince Andrew, pressing him to his fat breast, and for some time did not let him go. When he released him Prince Andrew saw that Kutuzov's flabby lips were trembling and that tears were in his eyes. He sighed and pressed on the bench with both hands to raise himself.

"Come! Come with me, we'll have a talk," said he.

But at that moment Denisov, no more intimidated by his superiors than by the enemy, came with jingling spurs up the steps of the porch, despite the angry whispers of the adjutants who tried to stop him. Kutuzov, his hands still pressed on the seat, glanced at him glumly. Denisov, having given his name, announced that he had to communicate to his Serene Highness a matter of great importance for their country's welfare. Kutuzov looked wearily at him and, lifting his hands with a gesture of annoyance, folded them across his stomach, repeating the words: "For our country's welfare? Well, what is it? Speak!" Denisov blushed like a girl (it was strange to see the color rise in that shaggy, bibulous, time-worn face) and boldly began to expound his plan of cutting the enemy's lines of communication between Smolensk and Vyazma. Denisov came from those parts and knew the country well. His plan seemed decidedly a good one, especially from the strength of conviction with which he spoke. Kutuzov looked down at his own legs, occasionally glancing at the door of the adjoining hut as if expecting something unpleasant to emerge from it. And from that hut, while Denisov was speaking, a general with a portfolio under his arm really did appear.

"What?" said Kutuzov, in the midst of Denisov's explanations, "are you ready so soon?"

"Ready, your Serene Highness," replied the general.

Kutuzov swayed his head, as much as to say: "How is one man to deal with it all?" and again listened to Denisov.

"I give my word of honor as a Wussian officer," said Denisov, "that I can bweak Napoleon's line of communication!"

"What relation are you to Intendant General Kiril Andreevich Denisov?" asked Kutuzov, interrupting

him.

"He is my uncle, your Sewene Highness."

"Ah, we were friends," said Kutuzov cheerfully. "All right, all right, friend, stay here at the staff and tomorrow we'll have a talk."

With a nod to Denisov he turned away and put out his hand for the papers Konovnitsyn had brought him.

"Would not your Serene Highness like to come inside?" said the general on duty in a discontented voice, "the plans must be examined and several papers have to be signed."

An adjutant came out and announced that everything was in readiness within. But Kutuzov evidently did not wish to enter that room till he was disengaged. He made a grimace...

"No, tell them to bring a small table out here, my dear boy. I'll look at them here," said he. "Don't go away," he added, turning to Prince Andrew, who remained in the porch and listened to the general's report.

While this was being given, Prince Andrew heard the whisper of a woman's voice and the rustle of a silk dress behind the door. Several times on glancing that way he noticed behind that door a plump, rosy, handsome woman in a pink dress with a lilac silk kerchief on her head, holding a dish and evidently awaiting the entrance of the commander in chief. Kutuzov's adjutant whispered to Prince Andrew that this was the wife of the priest whose home it was, and that she intended to offer his Serene Highness bread and salt. "Her husband has welcomed his Serene Highness with the cross at the church, and she intends to welcome him in the house.... She's very pretty," added the adjutant with a smile. At those words Kutuzov looked round. He was listening to the general's report--which consisted chiefly of a criticism of the position at Tsarevo-Zaymishche--as he had listened to Denisov, and seven years previously had listened to the discussion at the Austerlitz council of war. He evidently listened only because he had ears which, though there was a piece of tow in one of them, could not help hearing; but it was evident that nothing the general could say would surprise or even interest him, that he knew all that would be said beforehand, and heard it all only because he had to, as one has to listen to the chanting of a service of prayer. All that Denisov had said was clever and to the point. What the general was saying was even more clever and to the point, but it was evident that Kutuzov despised knowledge and cleverness, and knew of

something else that would decide the matter--something independent of cleverness and knowledge. Prince Andrew watched the commander in chief's face attentively, and the only expression he could see there was one of boredom, curiosity as to the meaning of the feminine whispering behind the door, and a desire to observe propriety. It was evident that Kutuzov despised cleverness and learning and even the patriotic feeling shown by Denisov, but despised them not because of his own intellect, feelings, or knowledge--he did not try to display any of these--but because of something else. He despised
them because of his old age and experience of life. The only instruction Kutuzov gave of his own accord during that report referred to looting by the Russian troops. At the end of the report the general put before him for signature a paper relating to the recovery of payment from army commanders for green oats mown down by the soldiers, when landowners lodged petitions for compensation.

After hearing the matter, Kutuzov smacked his lips together and shook his head.

"Into the stove... into the fire with it! I tell you once for all, my dear fellow," said he, "into the fire with all such things! Let them cut the crops and burn wood to their hearts' content. I don't order it or allow it, but I don't exact compensation either. One can't get on without it. 'When wood is chopped the chips will fly.'" He looked at the paper again. "Oh, this German precision!" he muttered, shaking his head.

CHAPTER XVI

"Well, that's all!" said Kutuzov as he signed the last of the documents, and rising
heavily and smoothing out the folds in his fat white neck he moved toward the door with a more cheerful expression.

The priest's wife, flushing rosy red, caught up the dish she had after all not managed to present at the right moment, though she had so long been preparing for it, and with a low bow offered it to Kutuzov.

He screwed up his eyes, smiled, lifted her chin with his hand, and said:

"Ah, what a beauty! Thank you, sweetheart!"

He took some gold pieces from his trouser pocket and put them on the dish for her. "Well, my dear, and how are we getting on?" he asked, moving to the door of the room assigned to him. The priest's wife smiled, and with dimples in her rosy cheeks followed him into the room. The adjutant came out to the porch and asked Prince Andrew to lunch with him. Half an hour later Prince Andrew was again called to Kutuzov. He found him reclining in an armchair, still in the same unbuttoned overcoat. He had in his hand a French book which he closed as Prince
Andrew entered, marking the place with a knife.
Prince Andrew saw by the cover that it was Les Chevaliers du Cygne by Madame de Genlis.

"Well, sit down, sit down here. Let's have a talk," said Kutuzov. "It's sad, very sad. But remember, my dear fellow, that I am a father to you, a second father...."

Prince Andrew told Kutuzov all he knew of his father's death, and what he had seen at Bald Hills when he passed through it.

"What... what they have brought us to!" Kutuzov suddenly cried in an agitated voice, evidently picturing vividly to himself from Prince Andrew's story the condition Russia was in. "But give me time, give me time!" he said with a grim look, evidently not wishing to continue this agitating conversation, and added: "I sent for you to keep you with me."

"I thank your Serene Highness, but I fear I am no longer fit for the staff," replied Prince Andrew with a smile which Kutuzov noticed.

Kutuzov glanced inquiringly at him.

"But above all," added Prince Andrew, "I have
grown used to my
regiment, am fond of the officers, and I fancy the men also like me. I should be sorry to leave the regiment. If I decline the honor of being with you, believe me..."

A shrewd, kindly, yet subtly derisive expression lit up Kutuzov's podgy face. He cut Bolkonski short.

"I am sorry, for I need you. But you're right, you're right! It's not here that men are needed. Advisers are always plentiful, but men are not. The regiments would not be what they are if the would-be advisers served there as you do. I remember you at Austerlitz.... I remember, yes, I remember you with the standard!" said Kutuzov, and

a flush of pleasure suffused Prince Andrew's face at this recollection.

Taking his hand and drawing him downwards, Kutuzov offered his cheek to be kissed, and again Prince Andrew noticed tears in the old man's eyes. Though Prince Andrew knew that Kutuzov's tears came easily, and that he was particularly tender to and considerate of him from a wish to show sympathy with his loss, yet this reminder of Austerlitz was both pleasant and flattering to him.

"Go your way and God be with you. I know your path is the path of honor!" He paused. "I missed you at Bucharest, but I needed someone to send." And changing the subject, Kutuzov began to speak of the Turkish war and the peace that had been concluded. "Yes, I have been much blamed," he said, "both for that war and the peace... but everything came at the right time. Tout vient a point a celui qui sait attendre.* And there were as many advisers there as here..." he went on, returning to the subject of "advisers" which evidently occupied him. "Ah, those advisers!" said he. "If we had listened to them all we should not have made peace with Turkey and should not have been through with that war. Everything in haste, but more haste, less speed. Kamenski would have been lost if he had not died. He stormed fortresses with thirty thousand men. It is not difficult to capture a fortress but it is difficult to win a campaign. For that, storming and attacking but patience and time are wanted. Kamenski sent soldiers to Rustchuk, but I only employed these two things and took more fortresses than Kamenski and made them but eat horseflesh!" He swayed his head. "And the French shall too, believe me," he went on, growing warmer and beating his chest, "I'll make them eat horseflesh!" And tears again dimmed his eyes.

*"Everything comes in time to him who knows how to wait."

"But shan't we have to accept battle?" remarked Prince Andrew.

"We shall if everybody wants it; it can't be helped.... But believe me, my dear boy, there is nothing stronger than those two: patience and time, they will do it all. But the advisers n'entendent pas de cette oreille, voila le mal.* Some want a thing--others don't. What's one to do?" he asked, evidently expecting an answer. "Well, what do you want us to do?" he repeated and his eye shone with a deep, shrewd look. "I'll tell you what to do," he continued, as Prince Andrew

still did not reply: "I will tell you what to do, and what I do. Dans le doute, mon cher," he paused, "abstiens-toi"*[2]--he articulated the French proverb deliberately.

*"Don't see it that way, that's the trouble."

*[2] "When in doubt, my dear fellow, do nothing."

"Well, good-by, my dear fellow; remember that with all my heart I share your sorrow, and that for you I am not a Serene Highness, nor a prince, nor a commander in chief, but a father! If you want anything come straight to me. Good-by, my dear boy."

Again he embraced and kissed Prince Andrew, but before the latter had left the room Kutuzov gave a sigh of relief and went on with his unfinished novel, Les Chevaliers du Cygne by Madame de Genlis.

Prince Andrew could not have explained how or why it was, but after that interview with Kutuzov he went back to his regiment reassured as to the general course of affairs and as to the man to whom it had been entrusted. The more he realized the absence of all personal motive in that old man--in whom there seemed to remain only the habit of passions, and in place of an intellect (grouping events and drawing conclusions) only the capacity calmly to contemplate the course of events--the more reassured he was that everything would be as it should. "He will not bring in any plan of his own. He will not devise or undertake anything," thought Prince Andrew, "but he will hear everything, remember everything, and put everything in its place. He will not hinder anything useful nor allow anything harmful. He understands that there is something stronger and more important than his own will--the inevitable course of events, and he can see them and grasp their significance, and seeing that significance can refrain from meddling and renounce his personal wish directed to something else. And above all," thought Prince Andrew, "one believes in him because he's Russian, despite the novel by Genlis and the French proverbs, and because his voice shook when he said: 'What they have brought us to!' and had a sob in it when he said he would 'make them eat horseflesh!'"

On such feelings, more or less dimly shared by all, the unanimity and general approval were founded with which, despite court influences, the popular choice of Kutuzov as commander in chief was received.

CHAPTER XVII

After the Emperor had left Moscow, life flowed on there in its usual course, and its course was so very usual that it was difficult to remember the recent days of patriotic elation and ardor, hard to believe that Russia was really in danger and that the members of the English Club were also sons of the Fatherland ready to sacrifice everything for it. The one thing that recalled the patriotic fervor everyone had displayed during the Emperor's stay was the call for contributions of men and money, a necessity that as soon as the promises had been made assumed a legal, official form and became unavoidable.

With the enemy's approach to Moscow, the Moscovites' view of their situation
did not grow more serious but on the contrary became even more frivolous, as always happens with people who see a great danger approaching. At the approach of danger there are always two voices that speak with equal power in the human soul: one very reasonably tells a man to consider the nature of the danger and the means of escaping it; the other, still more reasonably, says that it is too depressing and painful to think of the danger, since it is not in man's power to foresee everything and avert the general course of events, and it is therefore better to disregard what is painful till it comes, and to think about what is pleasant. In solitude a man generally listens to the first voice, but in society to the second. So it was now with the inhabitants of Moscow. It was long since people had been as gay in Moscow as that year.

Rostopchin's broadsheets, headed by woodcuts of a drink shop, a potman, and a Moscow burgher called Karpushka Chigirin, "who--having been a militiaman and having
had rather too much at the pub--heard
that Napoleon wished to come to Moscow, grew angry, abused the French in very bad language, came out of the drink shop, and, under the sign of the eagle, began to address the assembled people," were read and discussed, together with the latest of Vasili Lvovich Pushkin's bouts rimes.

In the corner room at the Club, members gathered to read these broadsheets, and some liked the way Karpushka jeered at the French, saying: "They will swell up with Russian cabbage, burst with our buckwheat porridge, and choke themselves with cabbage soup. They are

all dwarfs and one peasant woman will toss three of them with a hayfork." Others did not like that tone and said it was stupid and vulgar. It was said that Rostopchin had expelled all Frenchmen and even all foreigners from Moscow, and that there had been some spies and agents of Napoleon among them; but this was told chiefly to introduce Rostopchin's witty remark on that occasion. The foreigners were deported
to Nizhni by boat, and Rostopchin had said to them in French: "Rentrez en vousmemes; entrez dans la barque, et n'en faites pas une barque de Charon."* There was talk of all the government offices having been already removed from Moscow, and to this Shinshin's witticism was added--that for that alone Moscow ought to be grateful to Napoleon. It was said that Mamonov's regiment would cost him eight hundred thousand rubles, and that Bezukhov had spent even more on his, but that the best thing about Bezukhov's action was that he himself was going to don a uniform and ride at the head of his regiment without charging anything for the show.

*"Think it over; get into the barque, and take care not to make it a barque of Charon."

"You don't spare anyone," said Julie Drubetskaya as she collected and pressed together a bunch of raveled lint with her thin, beringed fingers.

Julie was preparing to leave Moscow next day and was giving a farewell soiree.

"Bezukhov est ridicule, but he is so
kind and good-natured. What
pleasure is there to be so caustique?"

"A forfeit!" cried a young man in militia uniform whom Julie called "mon chevalier," and who was going with her to Nizhni.

In Julie's set, as in many other circles in Moscow, it had been agreed that they would speak nothing but Russian and that those who made a slip and spoke French should pay fines to the Committee of Voluntary Contributions.

"Another forfeit for a Gallicism," said a Russian writer who was present. "'What pleasure is there to be' is not Russian!"

"You spare no one," continued Julie to the young man without heeding the author's remark.

"For caustique--I am guilty and will pay, and I am prepared to pay again for the pleasure of telling you the truth. For Gallicisms I won't be responsible," she remarked, turning to the author: "I have neither the money nor the time, like Prince Galitsyn, to engage a master to teach me Russian!"

"Ah, here he is!" she added. "Quand on... No, no," she said to the militia
officer, "you won't catch me. Speak of the sun and you see its rays!" and she smiled amiably at Pierre. "We were just talking of you," she said with the facility in lying natural to a society woman. "We were saying that your regiment would be sure to be better than Mamonov's."

"Oh, don't talk to me of my regiment," replied Pierre, kissing his hostess' hand and taking a seat beside her. "I am so sick of it."

"You will, of course, command it yourself?" said Julie, directing a sly, sarcastic glance toward the militia officer.

The latter in Pierre's presence had ceased to be caustic, and his face expressed perplexity as to what Julie's smile might mean. In spite of his absent-mindedness and good nature, Pierre's personality immediately checked any attempt to ridicule him to his face.

"No," said Pierre, with a laughing glance at his big, stout body. "I should make too good a target for the French, besides I am afraid I should hardly be able to climb onto a horse."

Among those whom
Julie's guests happened to choose to gossip about were the Rostovs.

"I hear that their affairs are in a very bad way," said Julie. "And he is so unreasonable, the count himself I mean. The Razumovskis wanted to buy his house and his estate near Moscow, but it drags on and on. He asks too much."

"No, I think the sale will come off in a few days," said someone. "Though it is madness to buy anything in Moscow now."

"Why?" asked Julie. "You don't think Moscow is in danger?"

"Then why are you leaving?"

"I? What a question! I am going because... well, because everyone is going: and besides--I am not Joan of Arc or an Amazon."

"Well, of course, of course! Let me have some more strips of linen."

"If he manages the business properly he will be able to pay off all his debts," said the militia officer, speaking of Rostov.

"A kindly old man but not up to much. And why do they stay on so long in Moscow? They meant to leave for the country long ago. Natalie is quite well again now, isn't she?" Julie asked Pierre with a knowing smile.

"They are waiting for their younger son," Pierre replied. "He joined Obolenski's Cossacks and went to Belaya Tserkov where the regiment is being formed. But now they have had him transferred to my regiment and are expecting him every day. The count wanted to leave long ago, but the countess won't on any account leave Moscow till her son returns."

"I met them the day before yesterday at the Arkharovs'. Natalie has recovered her looks and is brighter. She sang a song. How easily some people get over everything!"

"Get over what?" inquired Pierre, looking displeased.

Julie smiled.

"You know, Count, such knights as you are only found in Madame de Souza's novels."

"What knights? What do you mean?" demanded Pierre, blushing.

"Oh, come, my dear count! C'est la fable de tout Moscou. Je vous admire, ma parole d'honneur!"*

*"It is the talk of all Moscow. My word, I admire you!"

"Forfeit, forfeit!" cried the militia officer.

"All right, one can't talk--how tiresome!"

"What is 'the talk of all Moscow'?" Pierre asked angrily, rising to his feet.

"Come now, Count, you know!"

"I don't know anything about it," said Pierre.

"I know you were friendly with Natalie, and so... but I was always more friendly with Vera--that dear Vera."

"No, madame!" Pierre continued in a tone of displeasure, "I have not taken on myself the role of Natalie Rostova's knight at all, and have not been their house for nearly a month. But I cannot understand the cruelty..."

"Qui s'excuse s'accuse,"* said Julie, smiling and waving the lint triumphantly, and to have the last word she promptly changed the subject. "Do you know what I heard today? Poor Mary Bolkonskaya arrived in Moscow yesterday. Do you know that she has lost her father?"

*"Who excuses himself, accuses himself."

"Really? Where is she? I should like very much to see her," said Pierre.

"I spent the evening with her yesterday. She is going to their estate near Moscow either today or tomorrow morning, with her nephew."

"Well, and how is she?" asked Pierre.

"She is well, but sad. But do you know who rescued her? It is quite a romance. Nicholas Rostov! She was surrounded, and they wanted to kill her and had wounded some of her people. He rushed in and saved her...."

"Another romance," said the militia officer. "Really, this general flight has been arranged to get all the old maids married off. Catiche is one and Princess Bolkonskaya another."

"Do you know, I really believe she is un petit peu amoureuse du jeune homme."*

*"A little bit in love with the young man."

"Forfeit, forfeit, forfeit!"

"But how could one say that in Russian?"

CHAPTER XVIII

When Pierre returned home he was handed two of Rostopchin's broadsheets that had been brought that day.

The first declared that the report that Count Rostopchin had forbidden people to leave Moscow was false; on the contrary he was glad that ladies and tradesmen's wives were leaving the city. "There will be less
panic and less gossip," ran the broadsheet "but I will
stake my life on it that that will not enter Moscow." These words showed Pierre clearly for the first time that the French would enter Moscow. The second broadsheet stated that our headquarters were at Vyazma, that Count Wittgenstein had defeated the French, but that as many of the inhabitants of Moscow wished to be armed, weapons were ready for them at the arsenal: sabers, pistols, and muskets which could be had at a low price. The tone of the proclamation was not as jocose as in the former Chigirin talks. Pierre pondered over these broadsheets. Evidently the terrible stormcloud he had desired with the whole strength of his soul but which yet aroused involuntary horror in him was drawing near.

"Shall I join the army and enter the service, or wait?" he asked himself for the hundredth time. He took a pack of cards that lay on the table and began to lay them out for a game of patience.

"If this patience comes out," he said to himself
after shuffling the
cards, holding them in his hand, and lifting his head, "if it comes out, it means... what does it mean?"

He had not decided what it should mean when he heard the voice of the eldest princess at the door asking whether she might come in.

"Then it will mean that I must go to the army," said Pierre to himself. "Come in, come in!" he added to the princess.

Only the eldest princess, the one with the stony face and long waist, was still living in Pierre's house. The two younger ones had both married.

"Excuse my coming to you, cousin," she said in a reproachful and

agitated voice. "You know some decision must be come to. What is going to happen? Everyone has left Moscow and the people are rioting. How is it that we are staying on?"

"On the contrary, things seem satisfactory, ma cousine," said Pierre in the bantering tone he habitually adopted toward her, always feeling uncomfortable in the role of her benefactor.

"Satisfactory, indeed! Very satisfactory! Barbara Ivanovna told me today how our troops are distinguishing themselves. It certainly does them credit! And the people too are quite mutinous--they no longer obey, even my maid has taken to being rude. At this rate they will soon begin beating us. One can't walk in the streets. But, above all, the French will be here any day now, so what are we waiting for? I ask just one thing of you, cousin," she went on, "arrange for me to be taken to Petersburg. Whatever I may be, I can't live under Bonaparte's rule."

"Oh, come, ma cousine! Where do you get your information from? On the contrary..."

"I won't submit to your Napoleon! Others may if they please.... If you don't want to do this..."

"But I will, I'll give the order at once."

The princess was apparently vexed at not having anyone to be angry with. Muttering to herself, she sat down on a chair.

"But you have been misinformed," said Pierre. "Everything is quiet in the city and there is not the slightest danger. See! I've just been reading..."
He showed her the broadsheet. "Count Rostopchin writes that he will stake his life on it that the enemy will not enter Moscow."

"Oh, that count of yours!" said the princess malevolently. "He is a hypocrite, a rascal who has himself roused the people to riot. Didn't he write in those idiotic broadsheets that anyone, 'whoever it might be, should be dragged to the lockup by his hair'? (How silly!) 'And honor and glory to whoever captures him,' he says. This is what his cajolery has brought us to! Barbara Ivanovna told me the mob near killed her because she said something in French."

"Oh, but it's so... You take everything so to heart," said Pierre, and began laying out his cards for patience.

Although that patience did come out, Pierre did not join the army, but remained in deserted Moscow ever in the same state of agitation, irresolution, and alarm, yet at the same time joyfully expecting something terrible.

Next day toward evening the princess set off, and Pierre's head steward
came to inform him that the money needed for the equipment of his regiment could not be found without selling one of the estates. In general the head steward made out to Pierre that his project of raising a regiment would ruin him. Pierre listened to him, scarcely able to repress a smile.

"Well then, sell it," said he. "What's to be done? I can't draw back now!"

The worse everything became, especially his own affairs, the better was Pierre pleased and the more evident was it that the catastrophe he expected was approaching. Hardly anyone he knew was left in town. Julie had gone, and so had Princess Mary. Of his intimate friends only the Rostovs remained, but he did not go to see them.

To distract his thoughts he drove that day to the village of Vorontsovo to see the great balloon Leppich was constructing to destroy the foe, and a trial balloon that was to go up next day. The balloon was not yet ready, but Pierre learned that it was being constructed by the Emperor's desire. The
Emperor had written to
Count Rostopchin as follows:

As soon as Leppich is ready, get together a crew of reliable and intelligent men for his car and send a courier to General Kutuzov to let him know. I have informed him of the matter.

Please impress upon Leppich to be very careful where he descends for the first time, that he may not make a mistake and fall into the enemy's hands. It is essential for him to combine his movements with those of the commander in chief.

On his way home from Vorontsovo, as he was passing the Bolotnoe Place Pierre, seeing a large crowd round the Lobnoe Place, stopped and got out of his trap. A French cook accused of being a spy was being flogged. The flogging was only just over, and the executioner was releasing from the flogging bench a stout man with red whiskers, in blue stockings and a green jacket, who was moaning piteously.

Another criminal, thin and pale, stood near. Judging by their faces they were both Frenchmen. With a frightened and suffering look resembling that on the thin Frenchman's face, Pierre pushed his way in through the crowd.

"What is it? Who is it? What is it for?" he kept asking.

But the attention of the crowd--officials, burghers, shopkeepers, peasants, and women in cloaks and in pelisses--was so eagerly centered on what was passing in Lobnoe Place that no one answered him. The stout man rose, frowned, shrugged his shoulders, and evidently trying to appear firm began to pull on his jacket without looking about him, but suddenly his lips trembled and he began to cry, in the way full-blooded grown-up men cry, though angry with himself for doing so. In the crowd people began talking loudly, to stifle their feelings of pity as it seemed to Pierre.

"He's cook to some prince."

"Eh, mounseer, Russian sauce seems to be sour to a Frenchman... sets his teeth on edge!" said a wrinkled clerk who was standing behind Pierre, when the Frenchman began to cry.

The clerk glanced round, evidently hoping that his joke would be appreciated. Some people began to laugh, others continued to watch in dismay the executioner who was undressing the other man.

Pierre choked, his face puckered, and he turned hastily away, went back to his trap muttering something to himself as he went, and took his seat. As they drove along he shuddered and exclaimed several times so audibly that the coachman asked him:

"What is your pleasure?"

"Where are you going?" shouted Pierre to the man, who was driving to Lubyanka Street.

"To the Governor's, as you ordered," answered the coachman.

"Fool! Idiot!" shouted Pierre, abusing his coachman--a thing he rarely did. "Home, I told you! And drive faster, blockhead!" "I must get away this very day," he murmured to himself.

At the sight of the tortured Frenchman and the crowd surrounding the Lobnoe Place, Pierre had so definitely made up his mind that he could no longer remain in Moscow and would leave for the army that

very day that it seemed to him that either he had told the coachman this
or that the man ought to have known it for himself.

On reaching home Pierre gave orders to Evstafey--his head coachman who knew everything, could do anything, and was known to all Moscow--that he would leave that night for the army at Mozhaysk, and that his saddle horses should be sent there. This could not all be arranged that day, so on Evstafey's representation Pierre had to put off his departure till next day to allow time for the relay horses to be sent on in advance.

On the twenty-fourth the weather cleared up after a spell of rain, and after dinner Pierre left Moscow. When changing horses that night in Perkhushkovo, he learned that there had been a great battle that evening. (This was the battle of Shevardino.) He was told that there in Perkhushkovo the earth trembled from the firing, but nobody could answer his questions as to who had won. At dawn next day Pierre was approaching Mozhaysk.

Every house in Mozhaysk had soldiers quartered in it, and at the hostel where
Pierre was met by his groom and coachman there was no room to be had. It was full of officers.

Everywhere in Mozhaysk and beyond it, troops were stationed or on the march. Cossacks, foot and horse soldiers, wagons, caissons, and cannon were everywhere. Pierre pushed forward as fast as he could, and the farther he left Moscow behind and the deeper he plunged into that sea of troops the more was he overcome by restless agitation and a new and joyful feeling he had not experienced before. It was a feeling akin to what he had felt at the Sloboda Palace during the Emperor's visit--a sense of the necessity of undertaking something and sacrificing something. He now experienced a glad consciousness that everything that constitutes men's happiness--the comforts of life, wealth, even life itself--is rubbish it is pleasant to throw away, compared with something... With what? Pierre could not say, and he did not try to determine for whom and for what he felt such particular delight in sacrificing
everything. He was not occupied with the question of what to sacrifice for; the fact of sacrificing in itself afforded him a new and joyous sensation.

CHAPTER XIX

On the twenty-fourth of August the battle of the Shevardino Redoubt was fought, on the twenty-fifth not a shot was fired by either side, and on the twenty-sixth the battle of Borodino itself took place.

Why and how were the battles of Shevardino and Borodino given and accepted? Why was the battle of Borodino fought? There was not the least sense in it for either the French or the Russians. Its immediate result for the Russians was, and was bound to be, that we were brought nearer to the destruction of Moscow--which we feared more than anything in the world; and for the French its immediate result was that they were brought nearer to the destruction of their whole army--which they feared more than anything in the world. What the result must be was quite obvious, and yet Napoleon offered and Kutuzov accepted that battle.

If the commanders had been guided by reason, it would seem that it must have been obvious to Napoleon that by advancing thirteen hundred miles and giving battle with a probability of losing a quarter of his army, he was advancing to certain destruction, and it must have been equally clear to Kutuzov that by accepting battle and risking the loss of a quarter of his army he would certainly lose Moscow. For Kutuzov this was mathematically clear, as it is that if when playing draughts I have one man less and go on exchanging, I shall certainly lose, and therefore should not exchange. When my opponent has sixteen men and I have fourteen, I am only one eighth weaker than he, but when I have exchanged thirteen more men he will be three times as strong as I am.

Before the battle of Borodino our strength in proportion to the French was about as five to six, but after that battle it was little more than one to two: previously we had a hundred thousand against a hundred and twenty thousand; afterwards little more than fifty thousand against a hundred thousand. Yet the shrewd and experienced Kutuzov accepted the battle, while Napoleon, who was said to be a commander of genius, gave it, losing a quarter of his army and lengthening his lines of communication still more. If it is said that he expected to end the campaign by occupying Moscow as he had ended a previous campaign by occupying Vienna, there is much evidence to the contrary. Napoleon's historians themselves tell us that from Smolensk onwards he wished to stop, knew the danger of his extended position, and knew that the occupation of Moscow would not be the end of the campaign, for he had seen at Smolensk the state in which Russian towns were left to him, and had not received a single

reply to his repeated announcements of his wish to negotiate.

In giving and accepting battle at Borodino, Kutuzov acted involuntarily and irrationally. But later on, to fit what had occurred, the historians provided cunningly devised evidence of the foresight and genius the generals who, of all the blind tools of history were the most enslaved and involuntary.

The ancients have left us model heroic poems in which the heroes furnish the whole interest of the story, and we are still unable to accustom ourselves to the fact that for our epoch histories of that kind are meaningless.

On the other question, how the battle of Borodino and the preceding battle of Shevardino were fought, there also exists a definite and well-known, but quite false, conception. All the historians describe the affair as follows:

The Russian army, they say, in its retreat from Smolensk sought out for itself the best position for a general engagement and found such a position at Borodino.

The Russians, they say, fortified this position in advance on the left of the highroad (from Moscow to Smolensk) and almost at a right angle to it, from Borodino to Utitsa, at the very place where the battle was fought.

In front of this position, they say, a fortified outpost was set up on the Shevardino mound to observe the enemy. On the twenty-fourth, we are told, Napoleon attacked this advanced post and took it, and, on the twenty-sixth, attacked the whole Russian army, which was in position on the field of Borodino.

So the histories say, and it is all quite wrong, as anyone who cares to look into the matter can easily convince himself.

The Russians did not seek out the best position but, on the contrary, during the retreat passed many positions better than Borodino. They did not stop at any one of these positions because Kutuzov did not wish to occupy a position he had not himself chosen, because the popular demand for a battle had not yet expressed itself strongly enough, and because Miloradovich had not yet arrived with the militia, and for many other reasons. The fact is that other positions they had passed were stronger, and that the position at Borodino (the one where the battle was fought), far from being strong, was no more

a position than any other spot one might find in the Russian Empire by sticking a pin into the map at hazard.

Not only did the Russians not fortify the position on the field of Borodino to the left of, and at a right angle to, the highroad (that is, the position on which the battle took place), but never till the twenty-fifth of August, 1812, did they think that a battle might be fought there. This was shown first by the fact that there were no entrenchments there by the twenty fifth and that those begun on the twenty-fifth and twenty-sixth were not completed, and secondly, by the position of the Shevardino Redoubt. That redoubt was quite senseless in front of the position where the battle was accepted. Why was it more strongly fortified than any other post? And why were all efforts exhausted and six thousand men sacrificed to defend it till late at night on the twenty-fourth? A Cossack patrol would have sufficed to observe the enemy. Thirdly, as proof that the position on which the battle was fought had not been foreseen and that the Shevardino Redoubt was not an advanced post of that position, we have the fact that up to the twenty-fifth, Barclay de Tolly and Bagration were convinced that the Shevardino Redoubt was the left flank of the position, and that Kutuzov himself in his report, written in hot haste after the battle, speaks of the Shevardino Redoubt as the left flank of the position. It was much later, when reports on the battle of Borodino were written at leisure, that the incorrect and extraordinary statement was invented (probably to justify the mistakes of a commander in chief who had to be represented as infallible) that the Shevardino Redoubt was an advanced post--whereas in reality it was simply a fortified point on the left flank--and that the battle of Borodino was fought by us on an entrenched position previously selected, where as it was fought on a quite unexpected spot which was almost unentrenched.

The case was evidently this: a position was selected along the river Kolocha--which crosses the highroad not at a right angle but at an acute angle--so that the left flank was at Shevardino, the right flank near the village of Novoe, and the center at Borodino at the confluence of the rivers Kolocha and Voyna.

To anyone who looks at the field of Borodino without thinking of how the battle was actually fought, this position, protected by the river Kolocha, presents itself as obvious for an army whose object was to prevent an enemy from advancing along the Smolensk road to Moscow.

Napoleon, riding to Valuevo on the twenty-fourth, did not see (as the history books say he did) the position of the Russians from Utitsa to Borodino (he could not have seen that position because it did not

exist), nor did he see an advanced post of the Russian army, but while pursuing the Russian rearguard he came upon the left flank of the Russian position--at the Shevardino Redoubt--and unexpectedly for the Russians moved his army across the Kolocha.
And the Russians,
not having time to begin a general engagement, withdrew their left wing from the position they had intended to occupy and took up a new position which had not been foreseen and was not fortified. By crossing to the other side of the Kolocha to the left of the highroad, Napoleon shifted the whole forthcoming battle from right to left (looking from the Russian side) and transferred it to the plain between Utitsa, Semenovsk, and Borodino--a plain no more advantageous as a position than any other plain in Russia--and there the whole battle of the twenty-sixth of August took place.

Had Napoleon not ridden out on the evening of the twenty-fourth to the Kolocha, and had he not then ordered an immediate attack on the redoubt but had begun the attack next morning, no one would have doubted that the Shevardino Redoubt was the left flank of our and the battle would have taken place where we expected it. In that case we should probably have defended the Shevardino Redoubt--our
left
flank--still more obstinately. We should have attacked Napoleon in the center or on the right, and the engagement would have taken place on the twenty-fifth, in the position we intended and had fortified. But as the attack on our left flank took place in the evening after the retreat of our rear guard (that is, immediately after the fight at Gridneva), and as the Russian commanders did not wish, or were not in time, to begin a general engagement then on the evening of the twenty-fourth, the first and chief action of the battle of Borodino was already lost on the twenty-fourth, and obviously led to the loss of the one fought on the twenty-sixth.

After the loss of the Shevardino Redoubt, we found ourselves on the morning of the twenty-fifth without a position for our left flank, and were forced to bend it back and hastily entrench it where it chanced to be.

Not only was the Russian army on the twenty-sixth defended by weak, unfinished entrenchments, but the disadvantage of that
position
was increased by the fact that the Russian commanders--not having fully realized what had happened, namely the loss of our position on the left flank and the shifting of the whole field of the forthcoming battle from right to left--maintained their extended position from the village of Novoe to Utitsa, and consequently had to move their forces from right to left during the battle. So it happened that throughout the whole battle the Russians opposed the

entire French army launched against our left flank with but half as many men. (Poniatowski's action against Utitsa, and Uvarov's on the right flank against the French, were actions distinct from the main course of the battle.) So the battle of Borodino did not take place at all as (in an effort to conceal our commanders' mistakes even at the cost of diminishing the glory due to the Russian army and people) it has been described. The battle of Borodino was not fought on a chosen and entrenched position with forces only slightly weaker than those of the enemy, but, as a result of the loss of the Shevardino Redoubt, the Russians fought the battle of Borodino on an open and almost unentrenched position, with forces only half as numerous as the French; that is to say, under conditions in which it was not merely unthinkable to fight for ten hours and secure an indecisive result, but unthinkable to keep an army even from complete disintegration and flight.

CHAPTER XX

On the morning of the twenty-fifth Pierre was leaving Mozhaysk. At the descent of the high steep hill, down which a winding road led out of the town past the cathedral on the right, where a service was being held and the bells were ringing, Pierre got out of his vehicle and proceeded on foot. Behind him a cavalry regiment was coming down the hill preceded by its singers. Coming up toward him was a train of carts carrying men who had been wounded in the engagement the day before. The peasant drivers, shouting and lashing their horses, kept crossing from side to side. The carts, in each of which three or four wounded soldiers were lying or sitting, jolted over the stones that had been thrown on the steep incline to make it something like a road. The wounded, bandaged with rags, with pale cheeks, compressed lips, and knitted brows, held on to the sides of the carts as they were jolted against one another. Almost all of them stared with naive, childlike curiosity at Pierre's white hat and green swallow-tail coat.

Pierre's coachman shouted angrily at the convoy of wounded to keep to one side of the road. The cavalry regiment, as it descended the hill with its singers, surrounded Pierre's carriage and blocked the road. Pierre stopped, being pressed against the side of the cutting in which the road ran. The sunshine from behind the hill did not penetrate into the cutting and there it was cold and damp, but above

Pierre's head was the bright August sunshine and the bells sounded merrily. One of the carts with wounded stopped by the side of the road close to Pierre. The driver in his bast shoes ran panting up to it, placed a stone under one of its tireless hind wheels, and began arranging the breech-band on his little horse.

One of the wounded, an old soldier with a bandaged arm who was following the cart on foot, caught hold of it with his sound hand and turned to look at Pierre.

"I say, fellow countryman! Will they set us down here or take us on to Moscow?" he asked.

Pierre was so deep in thought that he did not hear the question. He was looking now at the cavalry regiment that had met the convoy of wounded, now at the cart by which he was standing, in which two wounded men were sitting and one was lying. One of those sitting up in the cart had probably been wounded in the cheek. His whole head was wrapped in rags and one cheek was swollen to the size of a baby's head. His nose and mouth were twisted to one side. This soldier was looking at the cathedral and crossing himself. Another, a young lad, a fair-haired recruit as white as though there was no blood in his thin face, looked at Pierre kindly, with a fixed smile. The third lay prone so that his face was not visible. The cavalry singers were passing close by:

Ah lost, quite lost... is my head so keen,
Living in a foreign land.

they sang their soldiers' dance song.

As if responding to them but with a different sort of merriment, the metallic sound of the bells reverberated high above and the hot rays of the sun bathed the top of the opposite slope with yet another sort of merriment. But beneath the slope, by the cart with the wounded near the panting little nag where Pierre stood, it was damp, somber, and sad.

The soldier with the swollen cheek looked angrily at the cavalry singers.

"Oh, the coxcombs!" he muttered reproachfully.

"It's not the soldiers only, but I've seen peasants today, too.... The peasants--even they have to go," said the soldier behind the cart, addressing Pierre with a sad smile. "No distinctions made nowadays....

They
want the whole nation to fall on them--in a word, it's Moscow!
They want to make an end of it."

In spite of the obscurity of the soldier's words Pierre understood
what he wanted to say and nodded approval.

The road was clear again; Pierre descended the hill and drove on.

He kept looking to either side of the road for familiar faces, but
only saw everywhere the unfamiliar faces of various military men of
different branches of the service, who all looked with astonishment at
his white hat and green tail coat.

Having gone nearly three miles he at last met an acquaintance and
eagerly addressed him. This was one of the head army doctors. He was
driving toward Pierre in a covered gig, sitting beside a young
surgeon, and on recognizing Pierre he told the Cossack who occupied
the driver's seat to pull up.

"Count! Your excellency, how come you to be here?" asked the doctor.

"Well, you know, I wanted to see..."

"Yes, yes, there will be something to see...."

Pierre got out
and talked to the doctor, explaining his intention of
taking part in a battle.

The doctor advised him to apply direct to Kutuzov.

"Why should you be God knows where out of sight, during the battle?"
he said, exchanging glances with his young companion. "Anyhow his
Serene Highness knows you and will receive you graciously. That's what
you must do."

The doctor seemed tired and in a hurry.

"You think so?... Ah, I also wanted to ask you where our position is
exactly?" said Pierre.

"The position?" repeated the doctor. "Well, that's not my line.
Drive past Tatarinova, a lot of digging is going on there. Go up the
hillock and you'll see."

"Can one see from there?... If you would..."

But the doctor interrupted him and moved toward his gig.

"I would go with you but on my honor I'm up to here"--and he pointed to his throat. "I'm galloping to the commander of the corps. How do matters stand?... You know, Count, there'll be a battle tomorrow. Out of an army of a hundred thousand we must expect at least twenty thousand wounded, and we haven't stretchers, or bunks, or dressers, or doctors enough for six thousand. We have ten thousand carts, but we need other things as well--we must manage as best we can!"

The strange thought that of the thousands of men, young and old, who had stared with merry surprise at his hat (perhaps the very men he had noticed), twenty thousand were inevitably doomed to wounds and death amazed Pierre.

"They may die tomorrow; why are they thinking of anything but death?" And by some latent sequence of thought the descent of the Mozhaysk hill, the carts with the wounded, the ringing bells, the slanting rays of the sun, and the songs of the cavalrymen vividly recurred to his mind.

"The cavalry ride to battle and meet the wounded and do not for a moment think of what awaits them, but pass by, winking at the wounded. Yet from among these men twenty thousand are doomed to die, and they wonder at my hat! Strange!" thought Pierre, continuing his way to Tatarinova.

In front of a landowner's house to the left of the road stood carriages, wagons, and crowds of orderlies and sentinels. The commander in chief was putting up there, but just when Pierre arrived he was not in and hardly any of the staff were there--they had gone to the church service. Pierre drove on toward Gorki.

When he had ascended the hill and reached the little village street, he saw for the first time peasant militiamen in their white shirts and with crosses on their caps, who, talking and laughing loudly, animated and perspiring, were at work on a huge knoll overgrown with grass to the right of the road.

Some of them were digging, others were wheeling barrowloads of earth along planks, while others stood about doing nothing.

Two officers were standing on the knoll, directing the men. On seeing these peasants, who were evidently still amused by the novelty of their position as soldiers, Pierre once more thought of the wounded men at Mozhaysk and understood what the

soldier had meant when
he said: "They want the whole nation to fall on them." The sight of these bearded peasants at work on the battlefield, with their queer, clumsy boots and perspiring necks, and their shirts opening from the left toward the middle, unfastened, exposing their sunburned collarbones, impressed Pierre more strongly with the solemnity and importance of the moment than anything he had yet seen or heard.

CHAPTER XXI

Pierre stepped out of his carriage and, passing the toiling militiamen, ascended the knoll from which, according to the doctor, the battlefield could be seen.

It was about eleven o'clock. The sun shone somewhat to the left and behind him and brightly lit up the enormous panorama which, rising like an amphitheater, extended before him in the clear rarefied atmosphere.

From above on the left, bisecting that amphitheater, wound the Smolensk highroad, passing through a village with a white church some five hundred paces in front of the knoll and below it.
This was
Borodino. Below the village the road crossed the river by a bridge and, winding down and up, rose higher and higher to the village of Valuevo visible about four miles away, where Napoleon was then stationed. Beyond Valuevo the road disappeared into a yellowing forest on the horizon. Far in the distance in that birch and fir forest to the right of the road, the cross and belfry of the Kolocha Monastery gleamed in the sun. Here and there over the whole of that blue expanse, to right and left of the forest and the road, smoking campfires could be seen and indefinite masses of troops--ours and the enemy's. The ground to the right--along the course of the Kolocha and Moskva rivers--was broken and hilly. Between the hollows the villages of Bezubova and Zakharino showed in the distance. On the left the ground was more level; there were fields of grain, and the smoking ruins of Semenovsk, which had been burned down, could be seen.

All that Pierre saw was so indefinite that neither
the left nor
the right side of the field fully satisfied his expectations.
Nowhere could he see the battlefield he had expected to find, but only

fields, meadows, troops, woods, the smoke of campfires, villages, mounds, and streams; and try as he would he could descry no military "position" in this place which teemed with life, nor could he even distinguish our troops from the enemy's.

"I must ask someone who knows," he thought, and addressed an officer who was looking with curiosity at his huge unmilitary figure.

"May I ask you," said Pierre, "what village that is in front?"

"Burdino, isn't it?" said the officer, turning to his companion.

"Borodino," the other corrected him.

The officer, evidently glad of an opportunity for a talk, moved up to Pierre.

"Are those our men there?" Pierre inquired.

"Yes, and there, further on, are the French," said the officer. "There they are, there... you can see them."

"Where? Where?" asked Pierre.

"One can see them with the naked eye... Why, there!"

The officer pointed with his hand to the smoke visible on the left beyond the river, and the same stern and serious expression that Pierre had noticed on many of the faces he had met came into his face.

"Ah, those are the French! And over there?..." Pierre pointed to a knoll on the left, near which some troops could be seen.

"Those are ours."

"Ah, ours! And there?..." Pierre pointed to another knoll in the distance with a big tree on it, near a village that lay in a hollow where also some campfires were smoking and something black was visible.

"That's his again," said the officer. (It was the Shevardino Redoubt.) "It was ours yesterday, but now it is his."

"Then how about our position?"

"Our position?" replied the officer with a smile of satisfaction. "I can tell you quite clearly, because I constructed nearly all our

entrenchments. There, you see? There's our center, at Borodino, just there," and he pointed to the village in front of them with the white church. "That's where one crosses the Kolocha. You see down there where the rows of hay are lying in the hollow, there's the bridge. That's our center. Our right flank is over there"--he pointed sharply to the right, far away in the broken ground--"That's where the Moskva River is, and we have thrown up three redoubts there, very strong ones. The left flank..." here the officer paused. "Well, you see, that's difficult to explain.... Yesterday our left flank was there at Shevardino, you see, where the oak is, but now we have withdrawn our left wing--now it is over there, do you see that village and the smoke? That's Semenovsk, yes, there," he pointed to Raevski's knoll. "But the battle will hardly be there. His having moved his troops there is only a ruse; he will probably pass round to the right of the Moskva. But wherever it may be, many a man will be missing tomorrow!" he remarked.

An elderly sergeant who had approached the officer while he was giving these explanations had waited in silence for him to finish speaking, but at this point, evidently not liking the officer's remark, interrupted him.

"Gabions must be sent for," said he sternly.

The officer appeared abashed, as though he understood that one might think of how many men would be missing tomorrow but ought not to speak to speak of it.

"Well, send number three company again," the officer replied hurriedly.

"And you, are you one of the doctors?"

"No, I've come on my own," answered Pierre, and he went down the hill again, passing the militiamen.

"Oh, those damned fellows!" muttered the officer who followed him, holding his nose as he ran past the men at work.

"There they are... bringing her, coming... There they are... They'll be here in a minute..." voices were suddenly heard saying; and officers, soldiers, and militiamen began running forward along the road.

A church procession was coming up the hill from Borodino. First along the dusty road came the infantry in ranks, bareheaded and with

arms reversed. From behind
them came the sound of church singing.

Soldiers and militiamen ran bareheaded past Pierre toward the procession.

"They are bringing her, our Protectress!... The Iberian Mother of God!" someone cried.

"The Smolensk Mother of God," another corrected him.

The militiamen, both those who had been in the village and those who had been at work on the battery, threw down their spades and ran to meet the church procession. Following the battalion that marched along the dusty road came priests in their vestments--one little old man in a hood with attendants and singers. Behind them soldiers and officers bore a large, dark-faced icon with an embossed metal cover. This was the icon that had been brought from and had since accompanied the army. Behind, before, and on both sides, crowds of militiamen with bared heads walked, ran, and bowed to the ground.

At the summit of the hill they stopped with the icon; the men who had been holding it up by the linen bands attached to it were relieved by
others, the chanters relit their censers, and service began. The hot rays of the sun beat down vertically and a fresh soft wind played with the hair of the bared heads and with the ribbons decorating the icon. The singing did not sound loud under the open sky. An immense crowd of bareheaded officers, soldiers, and militiamen surrounded the icon. Behind the priest and a chanter stood the notabilities on a spot reserved for them. A bald general with general with a St. George's Cross on his neck stood just behind the priest's back, and without crossing himself (he was evidently a German) patiently awaited the end of the service, which he considered it necessary to hear to the end, probably to arouse the patriotism of the Russian people. Another general stood in a martial pose, crossing himself by shaking his hand in front of his chest while looking about him. Standing among the crowd of peasants, Pierre recognized several acquaintances among these notables, but did not look at them--his
whole attention was absorbed in watching the serious expression on the faces of the crowd of soldiers and militiamen who were all gazing eagerly at the icon. As soon as the tired chanters, who were singing the service for the twentieth time that day, began lazily and mechanically to sing: "Save from calamity Thy servants, O Mother of God," and the priest and deacon chimed in: "For to Thee under God we all flee as to an inviolable bulwark and protection," there again kindled in all those faces the same expression of

consciousness of the solemnity of the impending moment that Pierre had seen on the faces at the foot of the hill at Mozhaysk and momentarily on many and many faces he had met that morning; and heads were bowed more frequently and hair tossed back, and sighs and the sound men made as they crossed themselves were heard.

The crowd round the icon suddenly parted and pressed against Pierre. Someone, a very important personage judging by the haste with which way was made for him,
was approaching the icon.

It was Kutuzov, who had been riding round the position and on his way back to Tatarinova had stopped where the service was being held. Pierre recognized him at once by his peculiar figure, which distinguished him from everybody else.

With a long overcoat on his his exceedingly stout,
round-shouldered body, with uncovered white head and puffy face showing the white ball of the eye he had lost, Kutuzov walked with plunging, swaying gait into the crowd and stopped behind the priest. He crossed himself with an accustomed movement, bent till he touched the ground with his hand, and bowed his white head with a deep sigh. Behind Kutuzov was Bennigsen and the suite. Despite the presence of the commander in chief, who attracted the attention of all the superior officers, the militiamen and soldiers continued their prayers without looking at him.

When the service was over, Kutuzov stepped up to the icon, sank heavily to his knees, bowed to the ground, and for a long
time tried
vainly to rise, but could not do so on account of his weakness and weight. His white head twitched with the effort. At last he rose, kissed the icon as a child does with naively pouting lips, and again bowed till he touched the ground with his hand. The other generals followed his example, then the officers, and after them with excited faces, pressing on one another, crowding, panting, and pushing, scrambled the soldiers and militiamen.

CHAPTER XXII

Staggering amid the crush, Pierre looked about him.

"Count Peter Kirilovich! How did you get here?" said a voice.

Pierre looked round. Boris Drubetskoy, brushing his knees with his hand (he had probably soiled them when he, too, had knelt before the icon), came up to him smiling. Boris was elegantly dressed, with a slightly martial touch appropriate to a campaign. He wore a long coat and like Kutuzov had a whip slung across his shoulder.

Meanwhile Kutuzov had reached the village and seated himself in the shade of the nearest
house, on a bench which one Cossack had run
to fetch and another had hastily covered with a rug. An immense and brilliant suite surrounded him.

The icon was carried further, accompanied by the throng. Pierre stopped some thirty paces from Kutuzov, talking to Boris.

He explained his wish to be present at the battle and to see the position.

"This is what you must do," said Boris. "I will do the honors of the camp to you. You will see everything best from where Count Bennigsen will be. I am in attendance on him, you know; I'll mention it to him. But if you want to ride round the position, come along with us. We are just going to the left flank. Then when we get back, do spend the night with me and we'll arrange a game of cards. Of course you know Dmitri Sergeevich? Those are his quarters," and he pointed to the third house in the village of Gorki.

"But I should like to see the right flank. They say it's very strong," said Pierre. "I should like to start from the Moskva River and
ride round the whole position."

"Well, you can do that later, but the chief thing is the left flank."

"Yes, yes. But where is Prince Bolkonski's regiment? Can you point it out to me?"

"Prince Andrew's? We shall pass it and I'll take you to him."

"What about the left flank?" asked Pierre

"To tell you the truth, between ourselves, God only knows what state our left flank is in," said Boris confidentially lowering his voice. "It is not at all what Count Bennigsen intended. He meant to fortify that knoll quite differently, but..." Boris shrugged his shoulders, "his Serene Highness would not have it, or someone persuaded him.

You see..." but Boris did not finish, for at that moment Kaysarov, Kutuzov's adjutant, came up to Pierre. "Ah, Kaysarov!" said Boris, addressing him with an unembarrassed smile, "I was just trying to explain our position to the count. It is amazing how his Serene Highness could so the intentions of the French!"

"You mean the left flank?" asked Kaysarov.

"Yes,
exactly; the left flank is now extremely strong."

Though Kutuzov had dismissed all unnecessary men from the staff, Boris had contrived to remain at headquarters after the changes. He had established himself with Count Bennigsen, who, like all on whom Boris had been in attendance, considered young Prince Drubetskoy an invaluable man.

In the higher command there were two sharply defined parties: Kutuzov's party and that of Bennigsen, the chief of staff. Boris belonged to the latter and no one else, while showing servile respect to Kutuzov, could so create an impression that the old fellow was not much good and that Bennigsen managed everything. Now the decisive moment of battle had come when Kutuzov would be destroyed and the power pass to Bennigsen, or even if Kutuzov won the battle it would be felt that everything was done by Bennigsen. In any case many great rewards would have to be given for tomorrow's action, and new men would come to the front. So Boris was full of nervous vivacity all
day.

After Kaysarov, others whom Pierre knew came up to him, and he had not time to reply to all the questions about Moscow that were showered upon him, or to listen to all that was told him. The faces all expressed animation and apprehension, but it seemed to Pierre that the cause of the excitement shown in some of these faces lay chiefly in questions of personal success; his mind, however, was occupied by the different expression he saw on other faces--an expression that spoke not of personal matters but of the universal questions of life and death. Kutuzov noticed Pierre's figure and the group gathered round him.

"Call him to me," said Kutuzov.

An adjutant told Pierre of his Serene Highness' wish, and Pierre went toward Kutuzov's bench. But a militiaman got there before him. It was Dolokhov.

"How did that fellow get here?" asked Pierre.

"He's a creature that wriggles in anywhere!" was the answer. "He has been degraded, you know. Now he wants to bob up again. He's been proposing
some scheme or other and has crawled into the enemy's picket line at night.... He's a brave fellow."

Pierre took off his hat and bowed respectfully to Kutuzov.

"I concluded that if I reported to your Serene Highness you might send me away or say that you knew what I was reporting, but then I shouldn't lose anything..." Dolokhov was saying.

"Yes, yes."

"But if I were right, I should be rendering a service to my Fatherland for which I am ready to die."

"Yes, yes."

"And should your Serene Highness require a man who will not spare his skin, please think of me.... Perhaps I may prove useful to your Serene Highness."

"Yes... Yes..." Kutuzov repeated, his laughing eye narrowing more and more as he looked at Pierre.

Just then Boris, with his courtierlike adroitness, stepped up to Pierre's side near Kutuzov and in a most natural manner, without raising his voice, said to Pierre, as though continuing an interrupted conversation:

"The militia have put on clean white shirts to be
ready to die. What
heroism, Count!"

Boris evidently said this to Pierre in order to be overheard by his Serene Highness. He knew Kutuzov's attention would be caught by those words, and so it was.

"What are you saying about the militia?" he asked Boris.

"Preparing for tomorrow, your Serene Highness--for death--they have put on clean shirts."

"Ah... a wonderful, a matchless people!" said Kutuzov; and he closed his eyes and swayed his head. "A matchless people!" he repeated with a

sigh.

"So you want to smell gunpowder?" he said to Pierre. "Yes, it's a pleasant smell. I have the honor to be one of your wife's adorers. Is she well? My quarters are at your service."

And as often happens with old people, Kutuzov began looking about absent-mindedly as if forgetting all he wanted to say or do.

Then, evidently remembering what he wanted, he beckoned to Andrew Kaysarov, his adjutant's brother.

"Those verses... those verses of Marin's... how do they go, eh? Those he wrote about Gerakov: 'Lectures for the corps inditing'... Recite them, recite them!" said he, evidently preparing to laugh.

Kaysarov recited.... Kutuzov smilingly nodded his head to the rhythm of the verses.

When Pierre had left Kutuzov, Dolokhov came up to him and took his hand.

"I am very glad to meet you here, Count," he said aloud, regardless of the presence of strangers and in a particularly resolute and solemn tone. "On the eve of a day when God alone knows who of us is fated to survive, I am glad of this opportunity to tell you that I regret the misunderstandings that occurred between us and should wish you not to have any ill feeling for me. I beg you to forgive me."

Pierre looked at Dolokhov with a smile, not knowing what to say to him. With tears in his eyes Dolokhov embraced Pierre and kissed him.

Boris said a few words to his general, and Count Bennigsen turned to Pierre and proposed that he should ride with him along the line.

"It will interest you," said he.

"Yes, very much," replied Pierre.

Half an hour later Kutuzov left for Tatarinova, and Bennigsen and his suite, with Pierre among them, set out on their ride along the line.

CHAPTER XXIII

From Gorki, Bennigsen descended the highroad to the bridge which, when they had looked it from the hill, the officer had pointed out as being the center of our position and where rows of fragrant new-mown hay lay by the riverside. They rode across that bridge into the village of Borodino and thence turned to the left, passing an enormous number of troops and guns, and came to a high knoll where militiamen were digging. This was the redoubt, as yet unnamed, which afterwards became known as the Raevski Redoubt, or the Knoll Battery, but Pierre paid no special attention to it. He did not know that it would become more memorable to him than any other spot on the plain of Borodino.

They then crossed the hollow to Semenovsk, where the soldiers were dragging away the last logs from the huts and barns. Then they rode downhill and
uphill, across a ryefield trodden and beaten down as if
by hail, following a track freshly made by the artillery over the furrows of the plowed land, and reached some fleches* which were still being dug.

*A kind of entrenchment.

At the fleches Bennigsen stopped and began looking at the Shevardino Redoubt opposite, which had been ours the day before and where several horsemen could be descried. The officers said that either Napoleon or Murat was there, and they all gazed eagerly at this little group of horsemen. Pierre also looked at them, trying to guess which of the scarcely discernible figures was Napoleon. At last those mounted men rode away from the mound and disappeared.

Bennigsen spoke to a general who approached him, and began explaining the whole position of our troops. Pierre listened to him, straining each faculty to understand the essential points of the impending battle, but was mortified to feel that his mental capacity was inadequate for the task. He could make nothing
of it. Bennigsen
stopped speaking and, noticing that Pierre was listening, suddenly said to him:

"I don't think this interests you?"

"On the contrary it's very interesting!" replied Pierre not quite

truthfully.

From the fleches they rode still farther to the left, along a road winding through a thick, low-growing birch wood. In the middle of the wood a brown hare with white feet sprang out and, scared by the tramp of the many horses, grew so confused that it leaped along the road in front of them for some time, arousing general attention and laughter, and only when several voices shouted at it did it dart to one side and disappear in the thicket. After going through the wood for about a mile and a half they came out on a glade where troops of Tuchkov's corps were stationed to defend the left flank.

Here, at the extreme left flank, Bennigsen talked a great deal and with much heat, and, as it seemed to Pierre, gave orders of great military importance. In front of Tuchkov's troops
was some high ground
not occupied by troops. Bennigsen loudly criticized this mistake, saying that it was madness to leave a height which commanded the country around unoccupied and to place troops below it. Some of the generals expressed the same opinion. One in particular declared with martial heat that they were put there to be slaughtered. Bennigsen on his own authority ordered the troops to occupy the high ground. This disposition on the left flank increased Pierre's doubt of his own capacity to understand military matters. Listening to Bennigsen and the generals criticizing the position of the troops behind the hill, he quite understood them and shared their opinion, but for that very reason he could not understand how the man who put them there behind the hill could have made so gross and palpable a blunder.

Pierre did not know that these troops were not, as Bennigsen supposed, put there to defend the position, but were in a concealed position as an ambush, that they should not
be seen and might be
able to strike an approaching enemy unexpectedly. Bennigsen did not know this and moved the troops forward according to his own ideas without mentioning the matter to the commander in chief.

CHAPTER XXIV

On that bright evening of August 25, Prince Andrew lay leaning on his elbow in a broken-down shed in the village of Knyazkovo at the further end of his regiment's encampment. Through a gap in the broken wall he could see, beside the wooden fence, a row of thirty

year-old birches with their lower branches lopped off, a field on which shocks of oats were standing, and some bushes near which rose the smoke of campfires--the soldiers' kitchens.

Narrow and burdensome and useless to anyone as his life now seemed to him, Prince Andrew on the eve of battle felt agitated and irritable as he had done seven years before at Austerlitz.

He had received and given the orders for next day's battle and had nothing more to do. But his thoughts--the simplest, clearest, and therefore
most terrible thoughts--would give him no peace. He knew that tomorrow's battle would be the most terrible of all he had taken part in, and for the first time in his life the possibility of death presented itself to him--not in relation to any worldly matter or with reference to its effect on others, but simply in relation to himself, to his own soul--vividly, plainly, terribly, and almost as a certainty. And from the height of this perception all that had previously tormented and preoccupied him suddenly became illumined by a cold white light without shadows, without perspective, without distinction of outline. All life appeared to him like magic-lantern pictures at which he had long been gazing by artificial light through a glass. Now he suddenly saw those badly daubed pictures in clear daylight and without a glass. "Yes, yes! There they are, those false images that agitated, enraptured, and tormented me," said he to himself, passing in review the principal pictures of the
magic
lantern of life and regarding them now in the cold white daylight of his clear perception of death. "There they are, those rudely painted figures that once seemed splendid and mysterious. Glory, the good of society, love of a woman, the Fatherland itself--how important these pictures appeared to me, with what profound meaning they seemed to be filled! And it is all so simple, pale, and crude in the cold white light of this morning which I feel is dawning for me." The three great sorrows of his life held his attention in particular: his love for a woman, his father's death, and the French invasion which had overrun half Russia. "Love... that little girl who seemed to me brimming over with mystic forces! Yes, indeed, I loved her. I made romantic plans of love and happiness with her! Oh, what a boy I was!" he said aloud bitterly. "Ah me! I believed in some ideal love which was to keep her faithful to me for the whole year of my absence! Like the gentle dove in the fable she was to
pine apart from me....
But it was much simpler really.... It was all very simple and horrible."

"When my father built Bald Hills he thought the place was his: his land, his air, his peasants. But Napoleon came and swept him aside,

unconscious of his existence, as he might brush a chip from his path, and his Bald Hills and his whole life fell to pieces. Princess Mary says it is a trial sent from above. What is the trial for, when he is not here and will never return? He is not here! For whom then is the trial intended? The Fatherland, the destruction of Moscow! And tomorrow I shall be killed, perhaps not even by a Frenchman but by one of our own men, by a soldier discharging a musket close to my ear as one of them did yesterday, and the French will come and take me by head and heels and fling me into a hole that I may not stink under their noses, and new conditions of life will arise, which will seem quite ordinary to others and about which I shall know nothing. I shall not exist..."

He looked at the row of birches shining in the sunshine, with their motionless green and yellow foliage and white bark. "To die... to be killed tomorrow... That I should not exist... That all this should still be, but no me...."

And the birches with their light and shade, the curly clouds, the smoke of the campfires, and all that was around him changed and seemed terrible and menacing. A cold shiver ran down his spine. He rose quickly, went out of the shed, and began to walk about.

After he had returned, voices were heard outside the shed. "Who's that?" he cried.

The red-nosed Captain Timokhin, formerly Dolokhov's squadron commander, but now from lack of officers a battalion commander,

shyly entered the shed followed by an adjutant and the regimental paymaster.

Prince Andrew rose hastily, listened to the business they had come about, gave them some further instructions, and was about to dismiss them when he heard a familiar, lisping, voice behind the shed.

"Devil take it!" said the voice of a man stumbling over something.

Prince Andrew looked out of the shed and saw Pierre, who had tripped over a pole on the ground and had nearly fallen, coming his way. It was unpleasant to Prince Andrew to meet people of his own set in general, and Pierre especially, for he reminded him of all the painful moments of his last visit to Moscow.

"You? What a surprise!" said he. "What brings you here? This is unexpected!"

As he said this his eyes and face expressed more than coldness--they expressed hostility, which Pierre noticed at once. He had approached the shed full of animation, but on seeing Prince Andrew's face he felt constrained and ill at ease.

"I have come... simply... you know... come... it interests me," said Pierre, who had so often that day senselessly repeated that word "interesting." "I wish to see the battle."

"Oh yes, and what do the Masonic brothers say about war? How would they stop it?" said Prince Andrew sarcastically. "Well, and how's Moscow? And my
people? Have they reached Moscow at last?" he asked
seriously.

"Yes, they have. Julie Drubetskaya told me so. I went to see them, but missed them. They have gone to your estate near Moscow."

CHAPTER XXV

The officers were about to take leave, but Prince Andrew, apparently reluctant to be left alone with his friend, asked them to stay and have tea. Seats were brought in and so was the tea. The officers gazed with surprise at Pierre's huge stout figure and listened to his talk of Moscow and the position of our army, round which he had ridden. Prince Andrew remained silent, and his expression was so forbidding that Pierre addressed his remarks chiefly to the good-natured battalion commander.

"So you understand the whole position of our troops?" Prince Andrew interrupted him.

"Yes--that is, how do you mean?" said Pierre. "Not being a military man I can't say I have understood it fully, but I understand the general position."

"Well, then, you know more than anyone else, be it who
it may," said
Prince Andrew.

"Oh!" said Pierre, looking over his spectacles in perplexity at Prince Andrew. "Well, and what do think of Kutuzov's appointment?"

he asked.

"I was very glad of his appointment, that's all I know," replied Prince Andrew.

"And tell me your opinion of Barclay de Tolly. In Moscow they are saying heaven knows what about him.... What do you think of him?"

"Ask them," replied Prince Andrew, indicating the officers.

Pierre looked at Timokhin with the condescendingly interrogative smile with which everybody involuntarily addressed that officer.

"We see light again, since his Serenity has been appointed, your excellency," said Timokhin timidly, and continually turning to glance at his colonel.

"Why so?" asked Pierre.

"Well, to mention only firewood and fodder, let me inform you. Why, when we were retreating from Sventsyani we dare not touch a stick or a wisp of hay or anything. You see, we were going away, so he would get it all; wasn't it so, your excellency?" and again Timokhin turned to the prince. "But we daren't. In our regiment two officers were court-martialed for that kind of thing. But when his Serenity took command everything became straight forward. Now we see light..."

"Then why was it forbidden?"

Timokhin looked about in confusion, not knowing what or how to answer such a question. Pierre put the same question to Prince Andrew.

"Why, so as not to lay waste the country we were abandoning to the enemy," said Prince Andrew with venomous irony. "It is very sound: one can't permit the land to be pillaged and accustom the troops to marauding. At Smolensk too he judged correctly that the French might outflank us, as they had larger forces. But he could not understand this," cried Prince Andrew in a shrill voice that seemed to escape him involuntarily: "he could not understand that there, for the first time, we were fighting for Russian soil, and that there was a spirit in the men such as I had never seen before, that we had held the French for two days, and that that success had increased our strength tenfold. He ordered us to retreat, and all our efforts and losses went for nothing. He had no thought of betraying us, he tried to do the best he could, he thought out everything, and that is why he is unsuitable. He is unsuitable now, just because he plans out

everything very thoroughly and accurately as every German has to. How can I explain?... Well, say your father has a German valet, and he is a splendid valet and satisfies your father's requirements better than you could, then it's all right to let him serve. But if your father is mortally sick you'll send the valet away and attend to your father with your own unpracticed, awkward hands, and will soothe him better than a skilled man who is a stranger could. So it has been with Barclay. While Russia was well, a foreigner could serve her and be a splendid minister; but as soon as she is in danger she needs one of her own kin. But in your Club they have been making
him out a traitor! They slander him as a traitor, and the only result will be that afterwards, ashamed of their false accusations, they will make him out a hero or a genius instead of a traitor, and that will be still more unjust. He is an honest and very punctilious German."

"And they say he's a skillful commander," rejoined Pierre.

"I don't understand what is meant by 'a skillful commander,'" replied Prince Andrew ironically.

"A skillful commander?" replied Pierre. "Why, one who foresees all contingencies... and foresees the adversary's intentions."

"But that's impossible," said Prince Andrew as if it were a matter settled long ago.

Pierre looked at him in surprise.

"And yet they say that war is like a game of chess?" he remarked.

"Yes," replied Prince Andrew, "but with this little difference, that in chess you may think over each move as long as you please and are not limited for time, and with this difference too, that a knight is always stronger than a pawn, and two pawns
are always stronger than one, while in war a battalion is sometimes stronger than a division and sometimes weaker than a company. The relative strength of bodies of troops can never be known to anyone. Believe me," he went on, "if things depended on arrangements made by the staff, I should be there making arrangements, but instead of that I have the honor to serve here in the regiment with these gentlemen, and I consider that on us tomorrow's battle will depend and not on those others.... Success never depends, and never will depend, on position, or equipment, or even on numbers, and least of all on position."

"But on what then?"

"On the feeling that is in me and in him," he pointed to Timokhin, "and in each soldier."

Prince Andrew glanced at Timokhin, who looked at his commander in alarm and bewilderment. In contrast to his former reticent taciturnity Prince Andrew now seemed excited. He could apparently not refrain from expressing the thoughts that had suddenly occurred to him.

"A battle is won by those who firmly resolve to win it! Why did we lose the battle at Austerlitz? The French losses were almost equal to ours, but very early we said to ourselves that we were losing the battle, and we did lose it. And we said so because we had nothing to fight for there, we wanted to get away from the battlefield as soon as we could. 'We've lost, so let us run,' and we ran. If we had not said that till the evening, heaven knows what might not have happened. But tomorrow we shan't say it! You talk about our position, the left flank weak and the right flank too extended," he went on. "That's all nonsense, there's nothing of the kind. But what awaits us tomorrow? A hundred million most diverse chances which will be decided on the instant by the fact that our men or theirs run or do not run, and that this man or that man is killed, but all that is being done at present is only play. The fact is that those men with whom you have ridden round the position not only do not help matters, but hinder. They are only concerned with their own petty interests."

"At such a moment?" said Pierre reproachfully.

"At such a moment!" Prince Andrew repeated. "To them it is only a moment affording opportunities to undermine a rival and obtain an extra cross or ribbon. For me tomorrow means this: a Russian army of a hundred thousand and a French army of a hundred thousand have met to fight, and the thing is that these two hundred thousand men will fight and the side that fights more fiercely and spares itself least will win. And if you like I will tell you that whatever happens and whatever muddles those at the top may make, we shall win tomorrow's battle. Tomorrow, happen what may, we shall win!"

"There now, your excellency! That's the truth, the real truth," said Timokhin. "Who would spare himself now? The soldiers in my battalion, believe me, wouldn't drink their vodka! 'It's not the day for that!' they say."

All were silent. The officers rose. Prince Andrew went out of the shed with them, giving final orders to the adjutant. After they had

gone Pierre approached Prince Andrew and was about to start a conversation when they heard the clatter of three horses' hoofs on the road not far from the shed, and looking in that direction Prince Andrew recognized Wolzogen and Clausewitz accompanied by a Cossack. They rode close by continuing to converse, and Prince Andrew involuntarily heard these words:

"Der Krieg muss in Raum verlegt werden. Der Ansicht kann ich nicht genug Preis geben,"* said one of them.

*"The war must be extended widely. I cannot sufficiently commend that view."

"Oh, ja," said the other, "der Zweck ist nur den Feind zu schwachen, so kann man gewiss nicht den Verlust der Privat-Personen in Achtung nehmen."*

*"Oh, yes, the only aim is to weaken the enemy, so of course one cannot take into account the loss of private individuals."

"Oh, no," agreed the other.

"Extend widely!" said Prince Andrew with an angry snort, when they had
ridden past. "In that 'extend' were my father, son, and sister, at Bald Hills. That's all the same to him! That's what I was saying to you--those German gentlemen won't win the battle tomorrow but will only make all the mess they can, because they have nothing in their German heads but theories not worth an empty eggshell and haven't in their hearts the one thing needed tomorrow--that which Timokhin has. They have yielded up all Europe to him, and have now come to teach us. Fine teachers!" and again his voice grew shrill.

"So you think we shall win tomorrow's battle?" asked Pierre.

"Yes, yes," answered Prince Andrew absently. "One thing I would do

if I had the power," he began again, "I would not take prisoners. Why take prisoners? It's chivalry! The French have destroyed my home and are on their way to destroy Moscow, they have outraged and are outraging me every moment. They are my enemies. In my opinion they are all criminals. And so thinks Timokhin and the whole army. They should

be executed! Since they are my foes they cannot be my friends, whatever may have been said at Tilsit."

"Yes, yes," muttered Pierre, looking with shining eyes at Prince Andrew. "I quite agree with you!"

The question that had perturbed Pierre on the Mozhaysk hill and all that day now seemed to him quite clear and completely solved. He now understood the whole meaning and importance of this war and of the impending battle. All he had seen that day, all the significant and stern expressions on the faces he had seen in passing, were lit up for him by a new light. He understood that latent heat (as they say in physics) of patriotism which was present in all these men he had seen, and this explained to him why they all prepared for death calmly, and as it were lightheartedly.

"Not take prisoners," Prince Andrew continued: "That by itself would quite change the whole war and make it less cruel. As it is we have played at war--that's what's vile! We play at magnanimity and all that stuff.
Such magnanimity and sensibility are like the magnanimity and sensibility of a lady who faints when she sees a calf being killed: she is so kind-hearted that she can't look at blood, but enjoys eating the calf served up with sauce. They talk to us of the rules of war, of chivalry, of flags of truce, of mercy to the unfortunate and so on. It's all rubbish! I saw chivalry and flags of truce in 1805; they humbugged us and we humbugged them. They plunder other people's houses, issue false paper money, and worst of all they kill my children and my father, and then talk of rules of war and magnanimity to foes! Take no prisoners, but kill and be killed! He who has come to this as I have through the same sufferings..."

Prince Andrew, who had thought it was all the same to him whether or not Moscow was taken as Smolensk had been, was suddenly checked in his speech by an unexpected cramp in his throat. He paced up and down a few times in silence, but his eyes glittered feverishly and his lips quivered
as he began speaking.

"If there was none of this magnanimity in war, we should go to war only when it was worth while going to certain death, as now. Then there would not be war because Paul Ivanovich had offended Michael Ivanovich. And when there was a war, like this one, it would be war! And then the determination of the troops would be quite different. Then all these Westphalians and Hessians whom Napoleon is leading would not follow him into Russia, and we should not go to fight in Austria and Prussia without knowing why. War is not courtesy but the most horrible thing in life; and we ought to understand that and not

play at war. We ought to accept this terrible necessity sternly and seriously. It all lies in that: get rid of falsehood and let war be war and not a game. As it is now, war is the favorite pastime of the idle and frivolous. The military calling is the most highly honored.

"But what is war? What is needed for success in warfare? What are the habits of the military? The aim of war is murder; the methods of war are spying, treachery, and their encouragement, the ruin of a country's inhabitants, robbing them or stealing to provision the army, and fraud and falsehood termed military craft. The habits of the military class are the absence of freedom, that is, discipline, idleness, ignorance, cruelty, debauchery, and drunkenness. And in spite of all this it is the highest class, respected by everyone. All the kings, except the Chinese, wear military uniforms, and he who kills most people receives the highest rewards.

"They meet, as we shall meet tomorrow, to murder one another; they kill and maim tens of thousands, and then have thanksgiving services for having killed so many people (they even exaggerate the number), and they announce a victory, supposing that the more people they have killed the greater their achievement. How does God above look at them and hear them?" exclaimed Prince Andrew in a shrill, piercing voice. "Ah, my friend, it has of late become hard for me to live. I see that I have begun to understand too much. And it doesn't do for man to taste of the tree of knowledge of good and evil.... Ah, well, it's not for long!" he added.

"However, you're sleepy, and it's time for me to sleep. Go back to Gorki!" said Prince Andrew suddenly.

"Oh no!" Pierre replied, looking at Prince Andrew with frightened, compassionate eyes.

"Go, go! Before a battle one must have one's sleep out," repeated Prince Andrew.

He came quickly up to Pierre and embraced and kissed him. "Good-by, be off!" he shouted. "Whether we meet again or not..." and turning away hurriedly he entered the shed.

It was already dark, and Pierre could not make out whether the expression of Prince Andrew's face was angry or tender.

For some time he stood in silence considering whether he should follow him or go away. "No, he does not want it!" Pierre concluded. "And I know that this is our last meeting!" He sighed deeply and

rode back to Gorki.

On re-entering
the shed Prince Andrew lay down on a rug, but he
could not sleep.

He closed his eyes. One picture succeeded another in his imagination. On one of them he dwelt long and joyfully. He vividly recalled an evening in Petersburg. Natasha with animated and excited face was telling him how she had gone to look for mushrooms the previous summer and had lost her way in the big forest. She incoherently described the depths of the forest, her feelings, and a talk with a beekeeper she met, and constantly interrupted her story to say: "No, I can't! I'm not telling it right; no, you don't understand," though he encouraged her by saying that he did understand, and he really had understood all she wanted to say. But Natasha was not satisfied with her own words: she felt that they did not convey the passionately poetic feeling she had experienced that day and wished to convey. "He was such a delightful old man, and it was so dark in the forest... and he had such kind... No, I can't describe
it," she had said, flushed and excited. Prince Andrew
smiled now the same happy smile as then when he had looked into her eyes. "I understood her," he thought. "I not only understood her, but it was just that inner, spiritual force, that sincerity, that frankness of soul--that very soul of hers which seemed to be fettered by her body--it was that soul I loved in her... loved so strongly and happily..." and suddenly he remembered how his love had ended. "He did not need anything of that kind. He neither saw nor understood anything of the sort. He only saw in her a pretty and fresh young girl, with whom he did not deign to unite his fate. And I?... and he is still alive and gay!"

Prince Andrew jumped up as if someone had burned him, and again began pacing up and down in front of the shed.

CHAPTER XXVI

On August 25, the eve of the battle of Borodino, M. de Beausset, prefect of the French Emperor's palace, arrived at Napoleon's quarters at Valuevo with Colonel Fabvier, the former from
Paris and the
latter from Madrid.

Donning his court uniform, M. de Beausset ordered a box he had brought for the Emperor to be carried before him and entered the first compartment of Napoleon's tent, where he began opening the box while conversing with Napoleon's aides-de-camp who surrounded him.

Fabvier, not entering the tent, remained at the entrance talking to some generals of his acquaintance.

The Emperor Napoleon had not yet left his bedroom and was finishing his toilet. Slightly snorting and grunting, he presented now his back and now his plump hairy chest to the brush with which his valet was rubbing him down. Another valet, with his finger over the mouth of a bottle, was sprinkling Eau de Cologne on the Emperor's pampered body with an expression which seemed to say that he alone knew where and how much Eau de Cologne should be sprinkled. Napoleon's short hair was wet and matted on the forehead, but his face, though puffy and yellow, expressed physical satisfaction. "Go on, harder, go on!" he muttered to the valet who was rubbing him, slightly twitching and grunting. An aide-de-camp, who had entered the bedroom to report to the Emperor the number of prisoners taken in yesterday's action, was standing by the door after delivering his message, awaiting permission to withdraw. Napoleon, frowning, looked at him from under his brows.

"No prisoners!" said he, repeating the aide-de-camp's words. "They are forcing us to exterminate them. So much the worse for the Russian army.... Go on... harder, harder!" he muttered, hunching his back and presenting his fat shoulders.

"All right. Let Monsieur de Beausset enter, and Fabvier too," he said, nodding to the aide-de-camp.

"Yes, sire," and the aide-de-camp disappeared through the door of the tent.

Two valets rapidly dressed His Majesty, and wearing the blue uniform of the Guards he went with firm quick steps to the reception room.

De Beausset's hands meanwhile were busily engaged arranging the present he had brought from the Empress, on two chairs directly in front of the entrance. But Napoleon had dressed and come out with such unexpected rapidity that he had not time to finish arranging the surprise.

Napoleon noticed at once what they were about and guessed that

they were not ready. He did not wish to deprive them of the pleasure of giving him a surprise, so he pretended not to see de Beausset and called Fabvier to him, listening silently and with a stern frown to what Fabvier told him of the heroism and devotion of his troops fighting at Salamanca, at the other end of Europe, with but one thought--to be worthy of their Emperor--and but one fear--to fail to please him. The result of that battle had been deplorable. Napoleon made ironic remarks during Fabvier's account, as if he had not expected that matters could go otherwise in his absence.

"I must make up for that in Moscow," said Napoleon. "I'll see you later," he added, and summoned de Beausset, who by that time had prepared the surprise,
having placed something on the chairs and
covered it with a cloth.

De Beausset bowed low, with that courtly French bow which only the old retainers of the Bourbons knew how to make, and approached him, presenting an envelope.

Napoleon turned to him gaily and pulled his ear.

"You have hurried here. I am very glad. Well, what is Paris saying?" he asked, suddenly changing his former stern expression for a most cordial tone.

"Sire, all Paris regrets your absence," replied de Beausset as was proper.

But though Napoleon knew that de Beausset had to say something of this kind, and though in his lucid moments he knew it was untrue, he was pleased to hear it from him. Again he honored him by touching his ear.

"I am very sorry to have made you travel so far," said he.

"Sire, I expected nothing less than to find you at the gates of Moscow," replied de Beausset.

Napoleon smiled and, lifting his head absentmindedly, glanced to the right. An aide-de-camp approached with gliding steps and
offered him a
gold snuffbox, which he took.

"Yes, it has happened luckily for you," he said, raising the open snuffbox to his nose. "You are fond of travel, and in three days you will see Moscow. You surely did not expect to see that Asiatic capital. You will have a pleasant journey."

De Beausset bowed gratefully at this regard for his taste for travel (of which he had not till then been aware).

"Ha, what's this?" asked Napoleon, noticing that all the courtiers were looking at something concealed under a cloth.

With courtly adroitness de Beausset half turned and without turning his back to the Emperor retired two steps, twitching off the cloth at the same time, and said:

"A present to Your Majesty from the Empress."

It was a portrait, painted in bright colors by Gerard, of the son borne to Napoleon by the daughter of the Emperor of Austria, the boy whom for some reason everyone called "The King of Rome."

A very pretty curly-headed boy with a look of the Christ in the Sistine
Madonna was depicted playing at stick and ball. The ball represented the terrestrial globe and the stick in his other hand a scepter.

Though it was not clear what the artist meant to express by depicting the so-called King of Rome spiking the earth with a stick, the allegory apparently seemed to Napoleon, as it had done to all who had seen it in Paris, quite clear and very pleasing.

"The King of Rome!" he said, pointing to the portrait with a graceful gesture. "Admirable!"

With the natural capacity of an Italian for changing the expression of his face at will, he drew nearer to the portrait and assumed a look of pensive tenderness. He felt that what he now said and did would be historical, and it seemed to him that it would now be best for him--whose grandeur enabled his son to play stick and ball with the terrestrial globe--to show, in contrast to that grandeur, the simplest paternal tenderness. His eyes grew dim, he moved forward, glanced round at a chair (which seemed to place itself
under him), and
sat down on it before the portrait. At a single gesture from him everyone went out on tiptoe, leaving the great man to himself and his emotion.

Having sat still for a while he touched--himself not knowing why-the thick spot of paint representing the highest light in the portrait, rose, and recalled de Beausset and the officer on duty. He ordered the portrait to be carried outside his tent, that the Old

Guard, stationed round it, might not be deprived of the pleasure of seeing the King of Rome, the son and heir of their adored monarch.

And while he was doing M. de Beausset the honor of breakfasting with him, they heard, as Napoleon had anticipated, the rapturous cries of the officers and men of the Old Guard who had run up to see the portrait.

"Vive l'Empereur! Vive le roi de Rome! Vive l'Empereur!" came those ecstatic cries.

After breakfast Napoleon in de Beausset's presence dictated his order of the day to the army.

"Short and energetic!" he remarked when he had read over the proclamation which he had dictated straight off without corrections. It ran:

Soldiers! This is the battle you have so longed for. Victory depends on you. It is essential for us; it will give us all we need: comfortable quarters and a speedy return to our country. Behave as you did at Austerlitz, Friedland, Vitebsk, and Smolensk. Let our remotest posterity recall your achievements this day with pride. Let it be said of each of you: "He was in the great battle before Moscow!"

"Before Moscow!" repeated Napoleon, and inviting M. de Beausset, who was so fond of travel, to accompany him on his ride, he went out of the tent to where the horses stood saddled.

"Your Majesty is too kind!" replied de Beausset to the invitation to accompany the Emperor; he wanted to sleep, did not know how to ride and was afraid of doing so.

But Napoleon nodded to the traveler, and de Beausset had to mount. When Napoleon came out of the tent the shouting of the Guards before his son's portrait grew still louder. Napoleon frowned.

"Take him away!" he said, pointing with a gracefully majestic gesture to the portrait. "It is too soon for him to see a field of battle."

De Beausset closed his eyes, bowed his head, and sighed deeply, to indicate how profoundly he valued and comprehended the Emperor's words.

CHAPTER XXVII

On the twenty-fifth of August, so his historians tell us, Napoleon spent the whole day on horseback inspecting the locality, considering plans submitted to him by his marshals, and personally giving commands to his generals.

The original line of the Russian forces along the river Kolocha had been dislocated by the capture of the Shevardino Redoubt on the twenty-fourth, and part of the line--the left flank--had been drawn back. That part of the line was not entrenched and in front of it the ground was more open and level than elsewhere. It was evident to anyone, military or not, that it was here the French should attack. It would seem that not much consideration was needed to reach this conclusion, nor any particular care or trouble on the part of the Emperor and his marshals, nor was there any need of that special and supreme quality called genius that people are so apt to ascribe to Napoleon; yet the historians who described the event later and the men who then surrounded Napoleon, and he himself, thought otherwise.

Napoleon rode over the plain and surveyed the locality with a profound air and in silence, nodded with approval or shook his head dubiously, and without communicating to the generals around him the profound course of ideas which guided his decisions merely gave them his final conclusions in the form of commands. Having listened to a suggestion from Davout, who was now called Prince d'Eckmuhl, to turn the Russian left wing, Napoleon said it should not be done, without explaining why not. To a proposal made by General Campan (who was to attack the fleches) to lead his division through the woods, Napoleon agreed, though the so-called Duke of Elchingen (Ney) ventured to remark that a movement through the woods was dangerous and might disorder the division.

Having inspected the country opposite the Shevardino Redoubt, Napoleon pondered a little in silence and then indicated the spots where two batteries should be set up by the morrow to act against the Russian entrenchments, and the places where, in line with them, the field artillery should be placed.

After giving these and other commands he returned to his tent, and

the dispositions for the battle were written down from his dictation.

These dispositions, of which the French historians write with enthusiasm and other historians with profound respect, were as follows:

At dawn the two new batteries established during the night on the plain occupied by the Prince d'Eckmuhl will open fire on the opposing batteries of the enemy.

At the same time the commander of the artillery of the 1st Corps, General Pernetti, with thirty cannon of Campan's division and all the howitzers of Dessaix's and Friant's divisions, will move forward, open fire, and overwhelm with shellfire the enemy's battery, against which will operate:

24 guns of the artillery of the Guards
30 guns of Campan's division

and 8 guns of Friant's and Dessaix's divisions
--

in all 62 guns.

The commander of the artillery of the 3rd Corps, General Fouche, will place the howitzers of the 3rd and 8th Corps, sixteen in all, on the flanks of the battery that is to bombard the entrenchment on the left, which will have forty guns in all directed against it.

General Sorbier must be ready at the first order to advance with all the howitzers of the Guard's artillery against either one or other of the entrenchments.

During the cannonade Prince Poniatowski is to advance through the wood on the village and turn the enemy's position.

General Campan will move through the wood to seize the first fortification.

After the advance has begun in this manner, orders will be given in accordance with the enemy's movements.

The cannonade on the left flank will begin as soon as the guns of the right wing are heard. The sharpshooters of Morand's division and

of the vice-King's division will open a heavy fire on seeing the attack commence on the right wing.

The vice-King will occupy the village and cross by its three bridges, advancing to the same heights as Morand's and Gibrard's divisions, which under his leadership will be directed against the redoubt and come into line with the rest of the forces.

All this must be done in good order (le tout se fera avec ordre et methode) as far as possible retaining troops in reserve.
The Imperial Camp near Mozhaysk,
September, 6, 1812.

These dispositions, which are very obscure and confused if one allows oneself to regard the arrangements without religious awe of his genius, related to Napoleon's orders to deal with four points--four different orders. Not one of these was, or could be, carried out.

In the disposition it is said first that the batteries placed on the spot chosen by Napoleon, with the guns of Pernetti and Fouche; which were to come in line with them, 102 guns in all, were to open fire and shower shells on the Russian fleches and redoubts. This could not be done, as from the spots selected by Napoleon the projectiles did not carry to the Russian works, and those 102 guns shot into the air until the nearest commander, contrary to Napoleon's instructions, moved them forward.

The second order was that Poniatowski, moving to the village through the wood, should turn the Russian left flank. This could not be done and was not done, because Poniatowski, advancing on the village through the wood, met Tuchkov there barring his way, and could not and did not turn the Russian position.

The third order was: General Campan will move through the wood to seize the first fortification. General Campan's division did not seize the first fortification but was driven back, for on emerging from the wood it had to reform under grapeshot, of which Napoleon was unaware.

The fourth order was: The vice-King will occupy the village (Borodino) and cross by its three bridges, advancing to the same heights as Morand's and Gdrard's divisions (for whose movements no directions are given), which under his leadership will be directed against the redoubt and come into line with the rest of the forces.

As far as one can make out, not so much from this unintelligible sentence as from the attempts the vice-King made to execute the orders given him, he was to advance from the left through Borodino to the redoubt while the divisions of Morand and Gerard were to advance simultaneously from the front.

All this, like the other parts of the disposition, was not and could not be executed. After passing through Borodino the vice-King was driven back to the Kolocha and could get no farther; while the divisions of Morand and Gerard did not take the redoubt but were driven back, and
the redoubt was only taken at the end of the battle
by the cavalry (a thing probably unforeseen and not heard of by Napoleon). So not one of the orders in the disposition was, or could be, executed. But in the disposition it is said that, after the
fight has commenced in this manner, orders will be given in accordance with the enemy's movements, and so it might be supposed that all necessary arrangements would be made by Napoleon during the battle. But this was not and could not be done, for during the whole battle Napoleon was so far away that, as appeared later, he could not know the course of the battle and not one of his orders during the fight could be executed.

CHAPTER XXVIII

Many historians say that the French did not win the battle of Borodino because Napoleon had a cold, and that if he had not had a cold the orders he gave before and during the battle would have been still more full of genius and Russia would have been lost and the face of the world have been changed. To
historians who believe that
Russia was shaped by the will of one man--Peter the Great--and that France from a republic became an empire and French armies went to Russia at the will of one man--Napoleon--to say that Russia remained a power because Napoleon had a bad cold on the twenty-fourth of August may seem logical and convincing.

If it had depended on Napoleon's will to fight or not to fight the battle of Borodino, and if this or that other arrangement depended on his will, then evidently a cold affecting the manifestation of his will might have saved Russia, and consequently the valet who omitted to bring Napoleon his waterproof boots on the twenty-fourth would have been the savior of Russia. Along that line of thought

such a deduction is indubitable, as indubitable as the deduction Voltaire made in jest (without knowing what he was jesting at) when he saw that the Massacre of St. Bartholomew was due to Charles IX's stomach being deranged. But to men who do not admit that Russia was formed by the will of one man, Peter I, or that the French Empire was formed and the war with Russia begun by the will of one man, Napoleon, that argument seems not merely untrue and irrational, but contrary to all human reality. To the question of what causes historic events another answer presents itself, namely, that the course of human events is predetermined from on high--depends on the coincidence of the wills of all who take part in the events, and that a Napoleon's influence on the course of these events is purely external and fictitious.

Strange as at first glance it may seem to suppose that the Massacre of St. Bartholomew was not due to Charles IX's will, though he gave the order for it and thought it was done as a result of that order; and strange as it may seem to suppose that the slaughter of eighty thousand men at Borodino was not due to Napoleon's will, though he ordered the commencement and conduct of the battle and thought it was done because he ordered it; strange as these suppositions appear, yet human dignity--which tells me that each of us is, if not more at least not less a man than the great Napoleon--demands the acceptance of that solution of the question, and historic investigation abundantly confirms it.

At the battle of Borodino Napoleon shot at no one and killed no one. That was all done by the soldiers. Therefore it was not he who killed people.

The French soldiers went to kill and be killed at the battle of Borodino not because of Napoleon's orders but by their own volition. The whole army--French, Italian, German, Polish, and Dutch--hungry, ragged, and weary of the campaign, felt at the sight of an army blocking their road to Moscow that the wine was drawn and must be drunk. Had Napoleon then forbidden them to fight the Russians, they would have killed him and have proceeded to fight the Russians because it was inevitable.

When they heard Napoleon's proclamation offering them, as compensation for mutilation and death, the words of posterity about their having been in the battle before Moscow, they cried "Vive l'Empereur!" just as they had cried "Vive l'Empereur!" at the sight of the portrait of the boy piercing the terrestrial globe with a toy stick, and just as they would have cried "Vive l'Empereur!" at any

nonsense that might be told them. There was nothing left for them to do but cry "Vive l'Empereur!" and go to fight, in order to get food and rest as conquerors in Moscow. So it was not because of Napoleon's commands that they killed their fellow men.

And it was not Napoleon who directed the course of the battle, for none of his orders were executed and during the battle he did not know what was going on before him. So the way in which these people killed one another was not decided by Napoleon's will but occurred independently of him, in accord with the will of hundreds of thousands of people who took part in the common action. It only seemed to Napoleon that it all took place by his will. And so the question whether he had or had not a cold has no more historic interest than the cold of the least of the transport soldiers.

Moreover, the assertion made by various writers that his cold was the cause of his dispositions not being as well planned as on former occasions, and of his orders during the battle not being as good as previously, is quite baseless, which again shows that Napoleon's cold on the twenty-sixth of August was unimportant.

The dispositions cited above are not at all worse, but are even better, than previous dispositions by which he had won victories. His pseudo-orders during the battle were also no worse than formerly, but much the same as usual. These dispositions and orders only seem worse than previous ones because the battle of Borodino was the first Napoleon did not win. The profoundest and most excellent dispositions and orders seem very bad, and every learned militarist criticizes them with looks of importance, when they relate to a battle that has been lost, and the very worst dispositions and orders seem very good, and serious people fill whole volumes to demonstrate their merits, when they relate to a battle that has been won.

The dispositions drawn up by Weyrother for the battle of Austerlitz were a model of perfection for that kind of composition, but still they were criticized--criticized for their very perfection, for their excessive minuteness.

Napoleon at the battle of Borodino fulfilled his office as representative of authority as well as, and even better than, at other battles. He did nothing harmful to the progress of the battle; he inclined to the most reasonable opinions, he made no confusion, did not contradict himself, did not get frightened or run away from the field of battle, but with his great tact and military experience carried out his role of appearing to command, calmly and with dignity.

CHAPTER XXIX

On returning from a second inspection of the lines, Napoleon remarked:

"The chessmen are set up, the game will begin tomorrow!"

Having ordered punch and summoned de Beausset, he began to talk to him about Paris and about some changes he meant to make the Empress' household, surprising the prefect by his memory of minute details relating to the court.

He showed an interest in trifles, joked about de Beausset's love of travel, and chatted carelessly, as a famous, self-confident surgeon who knows his job does when turning up his sleeves and putting on his apron while a patient is being strapped to the operating table. "The matter is in my hands and is clear and definite in my head. When the times comes to set to work I shall do it as no one else could, but now I can jest, and the more I jest and the calmer I am the more tranquil and confident you ought to be, and the more amazed at my genius."

Having finished his second glass of punch, Napoleon went to rest before the serious business which, he considered, awaited him next day. He was so much interested in that task that he was unable to sleep, and in spite of his cold which had grown worse from the dampness of the evening, he went into the large division of the tent at three o'clock in the morning, loudly blowing his nose. He asked whether the Russians had not withdrawn, and was told that the enemy's fires were still in the same places. He nodded approval.

The adjutant in attendance came into the tent.

"Well, Rapp, do you think we shall do good business today?" Napoleon asked him.

"Without doubt, sire," replied Rapp.

Napoleon looked at him.

"Do you remember, sire, what you did me the honor to say at Smolensk?" continued Rapp. "The wine is drawn and must be drunk."

Napoleon frowned and sat silent for a long time leaning his head on his hand.

"This poor army!" he suddenly remarked. "It has diminished greatly since Smolensk. Fortune is frankly a courtesan, Rapp. I have always said so and I am beginning to experience it. But the Guards, Rapp, the Guards are intact?" he remarked interrogatively.

"Yes, sire," replied
Rapp.

Napoleon took a lozenge, put it in his mouth, and glanced at his watch. He was not sleepy and it was still not nearly morning. It was impossible to give further orders for the sake of killing time, for the orders had all been given and were now being executed.

"Have the biscuits and rice been served out to the regiments of the Guards?" asked Napoleon sternly.

"Yes, sire."

"The rice too?"

Rapp replied that he had given the Emperor's order about the rice, but Napoleon shook his head in dissatisfaction as if not believing that his order had been executed. An attendant came in with punch. Napoleon ordered another glass to be brought for Rapp, and silently sipped his own.

"I have neither taste nor smell," he remarked, sniffing at his glass. "This cold is tiresome. They talk about medicine--what is the good of medicine when it can't cure a cold! Corvisart gave me these lozenges but they don't help at all. What can doctors cure? One can't cure anything. Our body is a machine for
living. It is organized
for that, it is its nature. Let life go on in it unhindered and let it defend itself, it will do more than if you paralyze it by encumbering it with remedies. Our body is like a perfect watch that should go for a certain time; watchmaker cannot open it, he can only adjust it by fumbling, and that blindfold.... Yes, our body is just a machine for living, that is all."

And having entered on the path of definition, of which he was fond, Napoleon suddenly and unexpectedly gave a new one.

"Do you know, Rapp, what military art is?" asked he. "It is the art of being stronger than the enemy at a given moment. That's all."

Rapp made no reply.

"Tomorrow we shall have to deal with Kutuzov!" said Napoleon. "We shall see! Do you remember at Braunau he commanded an army for three weeks and did not once mount a horse to inspect his entrenchments.... We shall see!"

He looked at his watch. It was still only four o'clock. He did not feel sleepy. The punch was finished and there was still nothing to do.
He rose, walked to and fro, put on a warm overcoat and a hat, and went out of the tent. The night was dark and damp, a scarcely perceptible moisture was descending from above. Near by, the campfires were dimly burning among the French Guards, and in the distance those of the Russian line shone through the smoke. The weather was calm, and the rustle and tramp of the French troops already beginning to move to take up their positions were clearly audible.

Napoleon walked about in front of his tent, looked at the fires and listened to these sounds, and as he was passing a tall guardsman in a shaggy cap, who was standing sentinel before his tent and had drawn himself up like a black pillar at sight of the Emperor, Napoleon stopped in front of him.

"What year did you enter the service?" he asked with that affectation of military bluntness and geniality with which he always addressed the soldiers.

The man answered the question.

"Ah! One of the old ones! Has your regiment had its rice?"

"It has, Your Majesty."

Napoleon nodded and walked away.

At half-past five Napoleon rode to the village of Shevardino.

It was growing light, the sky was clearing, only a single cloud lay in the east. The abandoned campfires were burning themselves out in the faint morning light.

On the right a single deep report of a cannon resounded and died

away in the prevailing silence. Some minutes passed. A second and a third report shook the air, then a fourth and a fifth boomed solemnly near by on the right.

The first shots had not yet ceased to reverberate before others rang out and yet more were heard mingling with and overtaking one another.

Napoleon with his suite rode up to the Shevardino Redoubt where he dismounted. The game had begun.

CHAPTER XXX

On returning to Gorki after having seen Prince Andrew, Pierre ordered his groom to get the horses ready and to call him early in the morning, and then immediately fell asleep behind a partition in a corner
Boris had given up to him.

Before he was thoroughly awake next morning everybody had already left the hut. The panes were rattling in the little windows and his groom was shaking him.

"Your excellency! Your excellency! Your excellency!" he kept repeating pertinaciously while he shook Pierre by the shoulder without looking at him, having apparently lost hope of getting him to wake up.

"What? Has it begun? Is it time?" Pierre asked, waking up.

"Hear the firing," said the groom, a discharged soldier. "All the gentlemen have gone out, and his Serene Highness himself rode past long ago."

Pierre dressed hastily and ran out to the porch. Outside all was bright, fresh, dewy, and cheerful. The sun, just bursting forth from behind a cloud that had concealed it, was shining, with rays still half broken by the clouds, over the roofs of the street opposite, on the dew-besprinkled dust of the road, on the walls of the houses, on the windows, the fence, and on Pierre's horses standing before
the
hut. The roar of guns sounded more distinct outside. An adjutant accompanied by a Cossack passed by at a sharp trot.

"It's time, Count; it's time!" cried the adjutant.

Telling the groom to follow him with the horses, Pierre went down the street to the knoll from which he had looked at the field of battle the day before. A crowd of military men was assembled there, members of the staff could be heard conversing in French, and Kutuzov's gray head in a white cap with a red band was visible, his gray nape sunk between his shoulders. He was looking through a field glass down the highroad before him.

Mounting the steps to the knoll Pierre looked at the scene before him, spellbound by beauty. It was the same panorama he had admired from that spot the day before, but now the whole place was full of troops and covered by smoke clouds from the guns, and the slanting rays of the bright sun, rising slightly to the left behind Pierre, cast upon it through the clear morning air penetrating streaks of rosy, golden tinted light and long dark shadows. The forest at the farthest extremity of the panorama seemed carved in some precious stone of a yellowish-green color; its undulating outline was silhouetted against the horizon and was pierced beyond Valuevo by the Smolensk highroad crowded with troops. Nearer at hand glittered golden cornfields interspersed with copses. There were troops to be seen everywhere, in front and to the right and left. All this was vivid, majestic, and unexpected; but what impressed Pierre most of all was the view of the battlefield itself, of Borodino and the hollows on both sides of the Kolocha.

Above the Kolocha, in Borodino and on both sides of it, especially to the left where the Voyna flowing between its marshy banks falls into the Kolocha, a mist had spread which seemed to melt, to dissolve, and to become translucent when the brilliant sun appeared and magically colored and outlined everything. The smoke of the guns mingled with this mist, and over the whole expanse and through that mist the rays of the morning sun were reflected, flashing back like lightning from the water, from the dew, and from the bayonets of the troops crowded together by the riverbanks and in Borodino. A white church could be seen through the mist, and here and there the roofs of huts in Borodino as well as dense masses of soldiers, or green ammunition chests and ordnance. And all this moved, or seemed to move, as the smoke and mist spread out over the whole space. Just as in the mist-enveloped hollow near Borodino, so along the entire line outside and above it and especially in the woods and fields to the left, in the valleys and on the summits of the high ground, clouds of powder smoke seemed continually to spring up out of nothing, now singly, now several at a time, some translucent, others dense, which, swelling, growing, rolling, and blending, extended over the whole expanse.

These puffs of smoke and (strange to say) the sound of
the firing produced
the chief beauty of the spectacle.

"Puff!"--suddenly a round compact cloud of smoke was seen merging from violet into gray and milky white, and "boom!" came the report a second later.

"Puff! puff!"--and two clouds arose pushing one another and blending together; and "boom, boom!" came the sounds confirming what the eye had seen.

Pierre glanced round at the first cloud, which he had seen as a round compact ball, and in its place already were balloons of smoke floating to one side, and--"puff" (with a pause)--"puff, puff!" three and then four more appeared and then from each, with the same interval--"boom--boom, boom!" came the fine, firm, precise sounds in reply. It seemed as if those smoke clouds sometimes ran and sometimes stood still while woods, fields, and glittering bayonets ran past them. From the left, over fields and bushes, those large balls of smoke were continually appearing followed by their solemn reports, while nearer still, in the hollows and woods, there burst from
the
muskets small cloudlets that had no time to become balls, but had their little echoes in just the same way. "Trakh-ta-ta-takh!" came the frequent crackle of musketry, but it was irregular and feeble in comparison with the reports of the cannon.

Pierre wished to be there with that smoke, those shining bayonets, that movement, and those sounds. He turned to look at Kutuzov and his suite, to compare his impressions with those of others. They were all looking at the field of battle as he was, and, as it seemed to him, with the same feelings. All their faces were now shining with that latent warmth of feeling Pierre had noticed the day before and had fully understood after his talk with Prince Andrew.

"Go, my dear fellow, go... and Christ be with you!" Kutuzov was saying to a general who stood beside him, not taking his eye from the battlefield.

Having received this order the general passed by Pierre on his way down the knoll.

"To the crossing!" said the general coldly and sternly
in reply to
one of the staff who asked where he was going.

"I'll go there too, I too!" thought Pierre, and followed the general.

The general mounted a horse a Cossack had brought him. Pierre went to his groom who was holding his horses and, asking which was the quietest, clambered onto it, seized it by the mane, and turning out his toes pressed his heels against its sides and, feeling that his spectacles were slipping off but unable to let go of the mane and reins, he galloped after the general, causing the staff officers to smile as they watched him from the knoll.

CHAPTER XXXI

Having descended the hill the general after whom Pierre was galloping turned sharply to the left, and Pierre, losing sight of him, galloped in among some ranks of infantry marching ahead of him. He tried to pass either in front of them or to the right or left, but there were soldiers everywhere, all with expression and busy with some unseen but evidently important task. They all gazed with the same dissatisfied and inquiring expression at this stout man in a white hat, who for some unknown reason threatened to trample them under his horse's hoofs.

"Why ride into the middle of the battalion?" one of them shouted at him.

Another prodded his horse with the butt end of a musket, and Pierre, bending over his saddlebow and hardly able to control his shying horse, galloped ahead of the soldiers where there was a free space.

There was a bridge ahead of him, where other soldiers stood firing. Pierre rode up to them. Without being aware of it he had come to the bridge across the Kolocha between Gorki and Borodino, which the French (having occupied Borodino) were attacking in the first phase of the battle. Pierre saw that there was a bridge in front of him and that soldiers were doing something on both sides of it and in the meadow, among the rows of new-mown hay which he had taken no notice of amid the smoke of the campfires the day before; but despite the incessant firing going on there he had no idea that this was the field of battle. He did not notice the sound of the bullets whistling from every side, or the projectiles that flew over him,

did not see the enemy on the other side of the river, and for a long time did not notice the killed and wounded, though many fell near him. He looked about him with a smile which did not leave his face.

"Why's that fellow in front of the line?" shouted somebody at him again.

"To the left!... Keep to the right!" the men shouted to him.

Pierre went to the right, and unexpectedly encountered one of Raevski's adjutants whom he knew. The adjutant looked angrily at him, evidently also intending to shout at him, but on recognizing him he nodded.

"How have you got here?" he said, and galloped on.

Pierre, feeling out of place there, having nothing to do, and afraid of getting in someone's way again, galloped after the adjutant.

"What's happening here? May I come with you?" he asked.

"One moment, one moment!" replied the adjutant, and riding up to a stout colonel who was standing in the meadow, he gave him some message and then addressed Pierre.

"Why have you come here, Count?" he asked with a smile. "Still inquisitive?"

"Yes, yes," assented Pierre.

But the adjutant turned his horse about and rode on.

"Here it's tolerable," said he, "but with Bagration on the left flank they're getting it frightfully hot."

"Really?" said Pierre. "Where is that?"

"Come along with me to our knoll. We can get a view from there and in our battery it is still bearable," said the adjutant. "Will you come?"

"Yes, I'll come with you," replied Pierre, looking round for his groom.

It was only now that he noticed wounded men staggering along or being carried on stretchers. On that very meadow he had ridden over the day before, a soldier was lying athwart the rows of scented hay,

with his head thrown awkwardly back and his shako off.

"Why haven't they carried him away?" Pierre was about to ask, but seeing the stern expression of the adjutant who was also looking that way, he checked himself.

Pierre did not find his groom and rode along the hollow with the adjutant to Raevski's Redoubt. His horse lagged behind the adjutant's and jolted him at every step.

"You don't seem to be used to riding, Count?" remarked the adjutant.

"No it's not that, but her action seems so jerky," said Pierre in a puzzled tone.

"Why... she's wounded!" said the adjutant. "In the off foreleg above the knee. A bullet, no doubt. I congratulate you, Count, on your baptism of fire!"

Having ridden in the smoke past the Sixth Corps, behind the artillery which had been moved forward and was in action, deafening them with the noise of firing, they came to a small wood. There it was cool and quiet, with a scent of autumn. Pierre and the adjutant dismounted and walked up the hill on foot.

"Is the general here?" asked the adjutant on reaching the knoll.

"He was here a minute ago but has just gone that way," someone told him, pointing to the right.

The adjutant looked at Pierre as if puzzled what to do with him now.

"Don't trouble about me," said Pierre. "I'll go up onto the knoll if I may?"

"Yes, do. You'll see everything from there and it's less dangerous, and I'll come for you."

Pierre went to the battery and the adjutant rode on. They did not meet again, and only much later did Pierre learn that he lost an arm that day.

The knoll to which Pierre ascended was that famous one afterwards known to the Russians as the Knoll Battery or Raevski's Redoubt, and to the French as la grande redoute, la fatale redoute, la redoute du centre, around which tens of thousands fell, and which the French

regarded as the key to the whole position.

This redoubt consisted of a knoll, on three sides of which trenches had been dug. Within the entrenchment stood ten guns that were being fired through openings in the earthwork.

In line with the knoll on both sides stood other guns which also fired incessantly. A little behind the guns stood infantry. When ascending that knoll Pierre had no notion that this spot, on which small trenches had been dug and from which a few guns were firing, was the most important point of the battle.

On the contrary, just because he happened to be there he thought it one of the least significant parts of the field.

Having reached the knoll, Pierre sat down at one end of a trench surrounding the battery and gazed at what was going on around him with an unconsciously happy smile. Occasionally he rose and walked about the battery still with that same smile, trying not to obstruct the soldiers who were loading, hauling the guns, and continually running past him with bags and charges. The guns of that battery were being fired continually one after another with a deafening roar, enveloping the whole neighborhood in powder smoke.

In contrast with the dread felt by the infantrymen placed in support, here in the battery where a small number of men busy at their work were separated from the rest by a trench, everyone experienced a common and as it were family feeling of animation.

The intrusion of Pierre's nonmilitary figure in a white hat made an unpleasant impression at first. The soldiers looked askance at him with surprise and even alarm as they went past him. The senior artillery officer, a tall, long-legged, pockmarked man, moved over to Pierre as if to see the action of the farthest gun and looked at him with curiosity.

A young round-faced officer, quite a boy still and evidently only just out of the Cadet College, who was zealously commanding the two guns entrusted to him, addressed Pierre sternly.

"Sir," he said, "permit me to ask you to stand aside. You must not be here."

The soldiers shook their heads disapprovingly as they looked at Pierre. But when they had convinced themselves that this man in the white hat was doing no harm, but either sat quietly on the slope of

the trench with a shy smile or, politely making way for the soldiers, paced up and down the battery under fire as calmly as if he were on a boulevard, their feeling of hostile distrust gradually began to change into a kindly and bantering sympathy, such as soldiers feel for their dogs, cocks, goats, and in general for the animals that live with the regiment. The men soon accepted Pierre into their family, adopted him, gave him a nickname ("our gentleman"), and made kindly fun of him among themselves.

A shell tore up the earth two paces from Pierre and he looked around with a smile as he brushed from his clothes some earth it had thrown up.

"And how's it you're not afraid, sir, really now?" a red-faced, broad-shouldered soldier asked Pierre, with a grin that disclosed a set of sound, white teeth.

"Are you afraid, then?" said Pierre.

"What else do you expect?" answered the soldier. "She has no mercy, you know! When she comes spluttering down, out go your innards. One can't help being afraid," he said laughing.

Several of the men, with bright kindly faces, stopped beside Pierre. They seemed not to have expected him to talk like anybody else, and the discovery that he did so delighted them.

"It's the business of us soldiers. But in a gentleman it's wonderful! There's a gentleman for you!"

"To your places!" cried the young officer to the men gathered round Pierre.

The young officer was evidently exercising his duties for the first or second time and therefore treated both his superiors and the men with great precision and formality.

The booming cannonade and the fusillade of musketry were growing more intense over the whole field, especially to the left where Bagration's fleches were, but where Pierre was the smoke of the firing made it almost impossible to distinguish anything. Moreover, his whole attention was engrossed by watching the family circle--separated from all else--formed by the men in the battery. His first unconscious feeling of joyful animation produced by the sights and sounds of the battlefield was now replaced by another, especially since he

had
seen that soldier lying alone in the hayfield. Now, seated on the slope of the trench, he observed the faces of those around him.

By ten o'clock some twenty men had already been carried away from the battery; two guns were smashed and cannon balls fell more and more frequently on the battery and spent bullets buzzed and whistled around. But the men in the battery seemed not to notice this, and merry voices and jokes were heard on all sides.

"A live one!" shouted a man as a whistling shell approached.

"Not this way! To the infantry!" added another with loud laughter, seeing the shell fly past and fall into the ranks of the supports.

"Are you bowing to a friend, eh?" remarked another, chaffing a peasant who ducked low as a cannon ball flew over.

Several soldiers gathered by the wall of the trench, looking out to see what was happening in front.

"They've withdrawn the front line, it has retired," said they, pointing over the earthwork.

"Mind your own business," an old sergeant shouted at them. "If they've retired it's because there's work for them to do farther back."

And the sergeant, taking one of the men by the shoulders, gave him a shove with his knee. This was followed by a burst of laughter.

"To the fifth gun, wheel it up!" came shouts from one side.

"Now then, all together, like bargees!" rose the merry voices of those who were moving the gun.

"Oh, she nearly knocked our gentleman's hat off!" cried the red-faced humorist, showing his teeth chaffing Pierre. "Awkward baggage!" he added reproachfully to a cannon ball that struck a cannon wheel and a man's leg.

"Now then, you foxes!" said another, laughing at some militiamen who, stooping low, entered the battery to carry away the wounded man.

"So this gruel isn't to your taste? Oh, you crows! You're scared!" they shouted at the militiamen who stood hesitating before the man whose leg had been torn off.

"There, lads... oh, oh!" they mimicked the peasants, "they don't like it at all!"

Pierre noticed that after every ball that hit the redoubt, and after every loss, the liveliness increased more and more.

As the flames of the fire hidden within come more and more vividly and rapidly from an approaching thundercloud, so, as if in opposition to what was taking place, the lightning of hidden fire growing more and more intense glowed in the faces of these men.

Pierre did not look out at the battlefield and was not concerned to know what was happening there; he was entirely absorbed in watching this fire which burned ever more brightly and which he felt was flaming up in the same way in his own soul.

At ten o'clock the infantry that had been among the bushes in front of the battery and along the Kamenka streamlet retreated. From the battery they could be seen running back past it carrying their wounded on their muskets. A general with his suite came to the battery, and after speaking to the colonel gave Pierre an angry look and went away again having ordered the infantry supports behind the battery to lie down, so as to be less exposed to fire. After this from amid the ranks of infantry to the right of the battery came the sound of a drum and shouts of command, and from the battery one saw how those ranks of infantry moved forward.

Pierre looked over the wall of the trench and was particularly struck by a pale young officer who, letting his sword hang down, was walking backwards and kept glancing uneasily around.

The ranks of the infantry disappeared amid the smoke but their long-drawn shout and rapid musketry firing could still be heard. A few minutes later crowds of wounded men and stretcher-bearers came back from that direction. Projectiles began to fall still more frequently in the battery. Several men were lying about who had not been removed. Around the cannon the men moved still more briskly and busily. No one any longer took notice of Pierre. Once or twice he was shouted at for being in the way. The senior officer moved with big, rapid strides from one gun to another with a frowning face. The young officer, with his face still more flushed, commanded the men more scrupulously than ever. The soldiers handed up the charges, turned, loaded, and did their business with strained smartness. They gave little jumps as they walked, as though they were on springs.

The stormcloud had come upon them, and in every face the fire which Pierre had watched kindle burned up brightly. Pierre standing beside the commanding officer. The young officer, his hand to his shako, ran up to his superior.

"I have the honor to report, sir, that only eight rounds are left. Are we to continue firing?" he asked.

"Grapeshot!" the senior shouted, without answering the question, looking over the wall of the trench.

Suddenly something happened: the young officer gave a gasp and bending double sat down on the ground like a bird shot on the wing. Everything became strange, confused, and misty in Pierre's eyes.

One cannon ball after another whistled by and struck the earthwork,
a soldier, or a gun. Pierre, who had not noticed these sounds before, now heard nothing else. On the right of the battery soldiers shouting "Hurrah!" were running not forwards but backwards, it seemed to Pierre.

A cannon ball struck the very end of the earth work by which he was standing, crumbling down the earth; a black ball flashed before his eyes and at the same instant plumped into something. Some militiamen who were entering the battery ran back.

"All with grapeshot!" shouted the officer.

The sergeant ran up to the officer and in a frightened whisper informed him (as a butler at dinner informs his master that there is no more of some wine asked for) that there were no more charges.

"The scoundrels! What are they doing?" shouted the officer, turning to Pierre.

The officer's face was red and perspiring and his eyes glittered under his frowning brow.

"Run to the reserves and bring up the ammunition boxes!" he yelled, angrily avoiding Pierre with his eyes and speaking
to his men.

"I'll go," said Pierre.

The officer, without answering him, strode across to the opposite side.

"Don't fire.... Wait!" he shouted.

The man who had been ordered to go for ammunition stumbled against Pierre.

"Eh, sir, this is no place for you," said he, and ran down the slope.

Pierre ran after him, avoiding the spot where the young officer was sitting.

One cannon ball, another, and a third flew over him, falling in front, beside, and behind him. Pierre ran down the slope. "Where am I going?" he suddenly asked himself when he was already near the green ammunition wagons. He halted irresolutely, not knowing whether to return or go on. Suddenly a terrible concussion threw him backwards to the ground. At the same instant he was dazzled by a great flash of flame, and immediately a deafening roar, crackling, and whistling made his ears tingle.

When he came to himself he was sitting on the ground leaning on his hands; the ammunition wagons he had been approaching no longer existed,
only charred green boards and rags littered the scorched grass, and a horse, dangling fragments of its shaft behind it, galloped past, while another horse lay, like Pierre, on the ground, uttering prolonged and piercing cries.

CHAPTER XXXII

Beside himself with terror Pierre jumped up and ran back to the battery, as to the only refuge from the horrors that surrounded him.

On entering the earthwork he noticed that there were men doing something there but that no shots were being fired from the battery. He had no time to realize who these men were. He saw the senior officer lying on the earth wall with his back turned as if he were examining something down below and that one of the soldiers he had noticed before was struggling forward shouting "Brothers!" and trying to free himself from some men who were holding him by the arm. He also saw something else that was strange.

But he had not time to realize that the colonel had been killed, that the soldier shouting "Brothers!" was a prisoner, and that another man had been bayoneted in the back before his eyes, for hardly had he run into the redoubt before a thin, sallow-faced, perspiring man in a blue uniform rushed on him sword in hand, shouting something. Instinctively guarding against the shock--for they had been running together at full speed before they saw one another--Pierre put out his hands and seized the man (a French officer) by the shoulder with one hand and by the throat with the other. The officer, dropping his sword, seized Pierre by his collar.

For some seconds they gazed with frightened eyes at one another's unfamiliar faces and both were perplexed at what they had done and what they were to do next. "Am I taken prisoner or have I taken him prisoner?" each was thinking. But the French officer was evidently more inclined to think he had been taken prisoner because Pierre's strong hand, impelled by instinctive fear, squeezed his throat ever tighter and tighter. The Frenchman was about to say something, when just above their heads, terrible and low, a cannon ball whistled, and it seemed to Pierre that the French officer's head had been torn off, so swiftly had he ducked it.

Pierre too bent his head and let his hands fall. Without further thought as to who had taken whom prisoner, the Frenchman ran back to the battery and Pierre ran down the slope stumbling over the dead and wounded who, it seemed to him, caught at his feet. But before he reached the foot of the knoll he was met by a dense crowd of Russian soldiers who, stumbling, tripping up, and shouting, ran merrily and wildly toward the battery. (This was the attack for which Ermolov claimed the credit, declaring that only his courage and good luck made such a feat possible: it was the attack in which he was said to have thrown some St. George's Crosses he had in his pocket into the battery for the first soldiers to take who got there.)

The French who had occupied the battery fled, and our troops shouting "Hurrah!" pursued them so far beyond the battery that it was difficult to call them back.

The prisoners were brought down from the battery and among them was a wounded French general, whom the officers surrounded. Crowds of wounded--some known to Pierre and some unknown--Russians and French, with faces distorted by suffering, walked, crawled, and were carried on stretchers from the battery. Pierre again went up onto the knoll where he had spent over an hour, and of that family circle which had received him as a member he did not find a single one. There

were many dead whom he did not know, but some he recognized. The young officer still sat in the same way, bent double, in a pool of blood at the edge of the earth wall. The red-faced man was still twitching, but they did not carry him away.

Pierre ran down the slope once more.

"Now they will stop it, now they will be horrified at what they have done!" he thought, aimlessly going toward a crowd of stretcher bearers moving from the battlefield.

But behind the veil of smoke the sun was still high, and in front and especially to the left, near Semenovsk, something seemed to be seething in the smoke, and the roar of cannon and musketry did not diminish, but even increased to desperation like a man who, straining himself, shrieks with all his remaining strength.

CHAPTER XXXIII

The chief action of the battle of Borodino was fought within the seven thousand feet between Borodino and Bagration's fleches. Beyond that space there was, on the one side, a demonstration made by the Russians with Uvarov's cavalry at midday, and on the other side, beyond Utitsa, Poniatowski's collision with Tuchkov; but these two were detached and feeble actions in comparison with what took place in the center of the battlefield. On the field between Borodino and the fleches, beside the wood, the chief action of the day took place on an open space visible from both sides and was fought in the simplest and most artless way.

The battle began on both sides with a cannonade from several hundred guns.

Then when the whole field was covered with smoke, two divisions, Campan's and Dessaix's, advanced from the French right, while Murat's troops advanced on Borodino from their left.

From the Shevardino Redoubt where Napoleon was standing the fleches were two thirds of a mile away, and it was more than a mile as the crow flies to Borodino, so that Napoleon could not see what was happening there, especially as the smoke mingling with the mist hid

the whole locality. The soldiers of Dessaix's division advancing against the fleches could only be seen till they had entered the hollow that lay between them and the fleches. As soon as they had descended into that hollow, the smoke of the guns and musketry on the fleches grew so dense that it covered the whole approach on that side of it. Through the smoke glimpses could be caught of something black--probably men--and at times the glint of bayonets. But whether they were moving or stationary,
whether they were French or Russian,
could not be discovered from the Shevardino Redoubt.

The sun had risen brightly and its slanting rays struck straight into Napoleon's face as, shading his eyes with his hand, he looked at the fleches. The smoke spread out before them, and at times it looked as if the smoke were moving, at times as if the troops moved. Sometimes shouts were heard through the firing, but it was impossible to tell what was being done there.

Napoleon, standing on the knoll, looked through a field glass, and in its small circlet saw smoke and men, sometimes his own and sometimes Russians, but when he looked again with the naked eye, he could not tell where what he had seen was.

He descended the knoll and began walking up and down before it.

Occasionally he stopped, listened to the firing, and gazed intently at the battlefield.

But not only was it impossible to make out what was happening from where he was standing down below, or from the knoll above on which some
of his generals had taken their stand, but even from the fleches themselves--in which by this time there were now Russian and now French soldiers, alternately or together, dead, wounded, alive, frightened, or maddened--even at those fleches themselves it was impossible to make out what was taking place. There for several hours amid incessant cannon and musketry fire, now Russians were seen alone, now Frenchmen alone, now infantry, and now cavalry: they appeared, fired, fell, collided, not knowing what to do with one another, screamed, and ran back again.

From the battlefield adjutants he had sent out, and orderlies from his marshals, kept galloping up to Napoleon with reports of the progress of the action, but all these reports were false, both because it was impossible in the heat of battle to say what was happening at any given moment and because many of the adjutants did not go to the actual place of conflict but reported what they had heard from others; and also because while an

adjutant was riding more than a mile to
Napoleon circumstances changed and the news he brought was already becoming false. Thus an adjutant galloped up from Murat with tidings that Borodino had been occupied and the bridge over the Kolocha was in the hands of the French. The adjutant asked whether Napoleon wished the troops to cross it? Napoleon gave orders that the troops should form up on the farther side and wait. But before that order was given-almost as soon in fact as the adjutant had left Borodino--the bridge had been retaken by the Russians and burned, in the very skirmish at which Pierre had been present at the beginning of the battle.

An adjutant galloped up from the fleches with a pale and frightened face and reported to Napoleon that their attack had been repulsed, Campan wounded, and Davout killed; yet at the very time the adjutant had been told that the French had been repulsed, the fleches had in fact been recaptured by other French troops, and Davout was alive and only
slightly bruised. On the basis of these necessarily untrustworthy reports Napoleon gave his orders, which had either been executed before he gave them or could not be and were not executed.

The marshals and generals, who were nearer to the field of battle but, like Napoleon, did not take part in the actual fighting and only occasionally went within musket range, made their own arrangements without asking Napoleon and issued orders where and in what direction to fire and where cavalry should gallop and infantry should run. But even their orders, like Napoleon's, were seldom carried out, and then but partially. For the most part things happened contrary to their orders. Soldiers ordered to advance ran back on meeting grapeshot; soldiers ordered to remain where they were, suddenly, seeing Russians unexpectedly before them, sometimes rushed back and sometimes forward, and the cavalry dashed without orders in pursuit of the flying Russians. In this way two cavalry regiments galloped through
the Semenovsk hollow and as soon as they reached the top of the incline turned round and galloped full speed back again. The infantry moved in the same way, sometimes running to quite other places than those they were ordered to go to. All orders as to where and when to move the guns, when to send infantry to shoot or horsemen to ride down the Russian infantry--all such orders were given by the officers on the spot nearest to the units concerned, without asking either Ney, Davout, or Murat, much less Napoleon. They did not fear getting into trouble for not fulfilling orders or for acting on their own initiative, for in battle what is at stake is what is dearest to man--his own life--and it sometimes seems that safety lies in running back, sometimes in running forward; and these men who were right in the heat of the battle acted according to the

mood of the moment. In reality, however, all these movements forward and backward did not improve or alter the position of the troops. All their rushing and galloping at one another did little harm, the harm of disablement and death was caused by the balls and bullets that flew over the fields on which these men were floundering about. As soon as they left the place where the balls and bullets were flying about, their superiors, located in the background, re-formed them and brought them under discipline and under the influence of that discipline led them back to the zone of fire, where under the influence of fear of death they lost their discipline and rushed about according to the chance promptings of the throng.

CHAPTER XXXIV

Napoleon's generals--Davout, Ney, and Murat, who were near that region of fire and sometimes even entered it--repeatedly led into it huge masses of well-ordered troops. But contrary to what had always happened in their former battles, instead of the news they expected of the enemy's flight, these orderly masses returned thence as disorganized and terrified mobs. The generals re-formed them, but their numbers constantly decreased. In the middle of the day Murat sent his adjutant to Napoleon to demand reinforcements.

Napoleon sat at the foot of the knoll, drinking punch, when Murat's adjutant galloped up with an assurance that the Russians would be routed if His Majesty would let him have another division.

"Reinforcements?" said Napoleon in a tone of stern surprise, looking at the adjutant--a handsome lad with long black curls arranged like Murat's own--as though he did not understand his words.

"Reinforcements!" thought Napoleon to himself. "How can they need reinforcements when they already have half the army directed against a weak, unentrenched Russian wing?"

"Tell the King of Naples," said he sternly, "that it is not noon yet, and I don't yet see my chessboard clearly. Go!..."

The handsome boy adjutant with the long hair sighed deeply without removing his hand from his hat and galloped back to where men were being slaughtered.

Napoleon rose and having summoned Caulaincourt
and Berthier began
talking to them about matters unconnected with the battle.

In the midst of this conversation, which was beginning to interest Napoleon, Berthier's eyes turned to look at a general with a suite, who was galloping toward the knoll on a lathering horse. It was Belliard. Having dismounted he went up to the Emperor with rapid strides and in a loud voice began boldly demonstrating the necessity of sending reinforcements. He swore on his honor that the Russians were lost if the Emperor would give another division.

Napoleon shrugged his shoulders and continued to pace up and down without replying. Belliard began talking loudly and eagerly to the generals of the suite around him.

"You are very fiery, Belliard," said Napoleon, when he again came up to the general. "In the heat of a battle it is easy to make a mistake. Go and have another look and then come back to me."

Before Belliard was out of sight, a messenger from another part of the battlefield galloped up.

"Now
then, what do you want?" asked Napoleon in the tone of a man irritated at being continually disturbed.

"Sire, the prince..." began the adjutant.

"Asks for reinforcements?" said Napoleon with an angry gesture.

The adjutant bent his head affirmatively and began to report, but the Emperor turned from him, took a couple of steps, stopped, came back, and called Berthier.

"We must give reserves," he said, moving his arms slightly apart. "Who do you think should be sent there?" he asked of Berthier (whom he subsequently termed "that gosling I have made an eagle").

"Send Claparede's division, sire," replied Berthier, who knew all the divisions regiments, and battalions by heart.

Napoleon nodded assent.

The adjutant galloped to Claparede's division and a few minutes later the Young Guards stationed behind the knoll moved forward. Napoleon gazed silently in that direction.

"No!" he suddenly said to Berthier. "I can't send Claparede. Send Friant's division."

Though there was no advantage in sending Friant's division instead of Claparede's, and even in obvious inconvenience and delay in stopping Claparede and sending Friant now, the order was carried out exactly. Napoleon did not notice that in regard to his army he was playing the part of a doctor who hinders by his medicines--a role he so justly understood and condemned.

Friant's division disappeared as the others had done into the smoke of the battlefield. From all sides adjutants continued to arrive at a gallop and as if by agreement all said the same thing. They all asked for reinforcements and all said that the Russians were holding their positions and maintaining a hellish fire under which the French army was melting away.

Napoleon sat on a campstool, wrapped in thought.

M. de Beausset, the man so fond of travel, having fasted since morning, came up to the Emperor and ventured respectfully to suggest lunch to His Majesty.

"I hope I may now congratulate Your Majesty on a victory?" said he.

Napoleon silently shook his head in negation. Assuming the negation to refer only to the victory and not to the lunch, M. de Beausset ventured with respectful jocularity to remark that there is no reason for not having lunch when one can get it.

"Go away..." exclaimed Napoleon suddenly and morosely, and turned aside.

A beatific smile of regret, repentance, and ecstasy beamed on M. de Beausset's face and he glided away to the other generals.

Napoleon was experiencing a feeling of depression like that of an ever-lucky gambler who, after recklessly flinging money about and always winning, suddenly just when he has calculated all the chances of the game, finds that the more he considers his play the more surely he loses.

His troops were the same, his generals the same, the same preparations had been made, the same dispositions, and the same proclamation courte et energique, he himself was still the same: he

knew that and knew that he was now even more experienced and skillful than before. Even the
enemy was the same as at Austerlitz and
Friedland--yet the terrible stroke of his arm had supernaturally become impotent.

All the old methods that had been unfailingly crowned with success: the concentration of batteries on one point, an attack by reserves to break the enemy's line, and a cavalry attack by "the men of iron," all these methods had already been employed, yet not only was there no victory, but from all sides came the same news of generals killed and wounded, of reinforcements needed, of the impossibility of driving back the Russians, and of disorganization among his own troops.

Formerly, after he had given two or three orders and uttered a few phrases, marshals and adjutants had come galloping up with congratulations and happy faces, announcing the trophies taken, the corps of prisoners, bundles of enemy eagles and standards, cannon and stores, and Murat had only begged leave to loose the cavalry to gather in the baggage wagons. So it had been at Lodi, Marengo, Arcola, Jena,
Austerlitz, Wagram, and so on. But now something strange was happening to his troops.

Despite news of the capture of the fleches, Napoleon saw that this was not the same, not at all the same, as what had happened in his former battles. He saw that what he was feeling was felt by all the men about him experienced in the art of war. All their faces looked dejected, and they all shunned one another's eyes--only a de Beausset could fail to grasp the meaning of what was happening.

But Napoleon with his long experience of war well knew the meaning of a battle not gained by the attacking side in eight hours, after all efforts had been expended. He knew that it was a lost battle and that the least accident might now--with the fight balanced on such a strained center--destroy him and his army.

When he ran his mind over the whole of this strange Russian campaign in which not one battle had been won, and in which not a flag, or cannon, or army corps had been captured in two months, when
he
looked at the concealed depression on the faces around him and heard reports of the Russians still holding their ground--a terrible feeling like a nightmare took possession of him, and all the unlucky accidents that might destroy him occurred to his mind. The Russians might fall on his left wing, might break through his center, he himself might be killed by a stray cannon ball. All this was possible. In former

battles he had only considered the possibilities of success, but now innumerable unlucky chances presented themselves, and he expected them all. Yes, it was like a dream in which a man fancies that a ruffian is coming to attack him, and raises his arm to strike that ruffian a terrible blow which he knows should annihilate him, but then feels that his arm drops powerless and limp like a rag, and the horror of unavoidable destruction seizes him in his helplessness.

The news that the Russians were attacking the left flank of the French army aroused that horror in Napoleon. He sat silently on a campstool below the knoll, with head bowed and elbows on his knees. Berthier approached and suggested that they should ride along the line to ascertain the position of affairs.

"What? What do you say?" asked Napoleon. "Yes, tell them to bring me my horse."

He mounted and rode toward Semenovsk.

Amid the powder smoke, slowly dispersing over the whole space through which Napoleon rode, horses and men were lying in pools of blood, singly or in heaps. Neither Napoleon nor any of his generals had ever before seen such horrors or so many slain in such a small area. The roar of guns, that had not ceased for ten hours, wearied the ear and gave a peculiar significance to the spectacle, as music does to tableaux vivants. Napoleon rode up the high ground at Semenovsk, and through the smoke saw ranks of men in uniforms of a color unfamiliar to him. They were Russians.

The Russians stood in serried ranks behind Semenovsk village and its knoll, and their guns boomed incessantly along their line and sent forth clouds of smoke. It was no longer a battle: it was a continuous slaughter which could be of no avail either to the French or the Russians. Napoleon stopped his horse and again fell into the reverie from which Berthier had aroused him. He could not stop what was going on before him and around him and was supposed to be directed by him and to depend on him, and from its lack of success this affair, for the first time, seemed to him unnecessary and horrible.

One of the generals rode up to Napoleon and ventured to offer to lead the Old Guard into action. Ney and Berthier, standing near Napoleon, exchanged looks and smiled contemptuously at this general's senseless offer.

Napoleon bowed his head and remained silent a long time.

"At eight hundred leagues from France, I will not have my Guard destroyed!" he said, and turning his horse rode back to Shevardino.

CHAPTER XXXV

On the rug-covered bench where Pierre had seen him in the morning sat Kutuzov,
his gray head hanging, his heavy body relaxed. He gave no orders, but only assented to or dissented from what others suggested.

"Yes, yes, do that," he replied to various proposals. "Yes, yes: go, dear boy, and have a look," he would say to one or another of those about him; or, "No, don't, we'd better wait!" He listened to the reports that were brought him and gave directions when his subordinates demanded that of him; but when listening to the reports it seemed as if he were not interested in the import of the words spoken, but rather in something else--in the expression of face and tone of voice of those who were reporting. By long years of military experience he knew, and with the wisdom of age understood, that it is impossible for one man to direct hundreds of thousands of others struggling with death, and he knew that the result of a battle is decided not by the orders of a commander in chief, nor the place where the troops are stationed, nor by the number of cannon or of slaughtered
men, but by that intangible force called the spirit of the army, and he watched this force and guided it in as far as that was in his power.

Kutuzov's general expression was one of concentrated quiet attention, and his face wore a strained look as if he found it difficult to master the fatigue of his old and feeble body.

At eleven o'clock they brought him news that the fleches captured by the French had been retaken, but that Prince Bagration was wounded. Kutuzov groaned and swayed his head.

"Ride over to Prince Peter Ivanovich and find out about it exactly," he said to one of his adjutants, and then turned to the Duke of Wurttemberg who was standing behind him.

"Will Your Highness please take command of the first army?"

Soon after the duke's departure--before he could possibly have

reached Semenovsk--his adjutant came back from him and told Kutuzov that the duke asked for more troops.

Kutuzov made a grimace and sent an order to Dokhturov to take over the command of the first
army, and a request to the duke--whom he said
he could not spare at such an important moment--to return to him. When they brought him news that Murat had been taken prisoner, and the staff officers congratulated him, Kutuzov smiled.

"Wait a little, gentlemen," said he. "The battle is won, and there is nothing extraordinary in the capture of Murat. Still, it is better to wait before we rejoice."

But he sent an adjutant to take the news round the army.

When Scherbinin came galloping from the left flank with news that the French had captured the fleches and the village of Semenovsk, Kutuzov, guessing by the sounds of the battle and by Scherbinin's looks that the news was bad, rose as if to stretch his legs and, taking Scherbinin's arm, led him aside.

"Go, my dear fellow," he said to Ermolov, "and see whether something can't be done."

Kutuzov was in Gorki, near the center of the Russian position. The attack directed by Napoleon against our left flank had been several times repulsed.
In the center the French had not got beyond
Borodino, and on their left flank Uvarov's cavalry had put the French to flight.

Toward three o'clock the French attacks ceased. On the faces of all who came from the field of battle, and of those who stood around him, Kutuzov noticed an expression of extreme tension. He was satisfied with the day's success--a success exceeding his expectations, but the old man's strength was failing him. Several times his head dropped low as if it were falling and he dozed off. Dinner was brought him.

Adjutant General Wolzogen, the man who when riding past Prince Andrew had said, "the war should be extended widely," and whom Bagration so detested, rode up while Kutuzov was at dinner. Wolzogen had come from Barclay de Tolly to report on the progress of affairs on the left flank. The sagacious Barclay de Tolly, seeing crowds of wounded men running back and the disordered rear of the army, weighed all the circumstances, concluded that the battle was lost, and sent

his favorite officer to the commander in chief with that news.

Kutuzov was chewing a piece of roast chicken with difficulty and glanced at Wolzogen with eyes that brightened under their puckering lids.

Wolzogen, nonchalantly stretching his legs, approached Kutuzov with a half-contemptuous smile on his lips, scarcely touching the peak of his cap.

He treated his Serene Highness with a somewhat affected nonchalance intended to show that, as a highly trained military man, he left it to Russians to make an idol of this useless old man, but that he knew whom he was dealing with. "Der alte Herr" (as in their own set the Germans called Kutuzov) "is making himself very comfortable," thought Wolzogen, and looking severely at the dishes in front of Kutuzov he began to report to "the old gentleman" the position of affairs on the left flank as Barclay had ordered him to and as he himself had seen and understood it.

"All the points of our position are in the enemy's hands and we cannot dislodge
them for lack of troops, the men are running away
and it is impossible to stop them," he reported.

Kutuzov ceased chewing and fixed an astonished gaze on Wolzogen, as if not understand what was said to him. Wolzogen, noticing "the old gentleman's" agitation, said with a smile:

"I have not considered it right to conceal from your Serene Highness what I have seen. The troops are in complete disorder..."

"You have seen? You have seen?..." Kutuzov shouted frowning, and rising quickly he went up to Wolzogen.

"How... how dare you!..." he shouted, choking and making a threatening gesture with his trembling arms: "How dare you, sir, say that to me? You know nothing about it. Tell General Barclay from me that his information is incorrect and that the real course of the battle is better known to me, the commander in chief, than to him."

Wolzogen was about to make a rejoinder, but Kutuzov interrupted him.

"The enemy has been repulsed on the left and defeated on the right flank. If you
have seen amiss, sir, do not allow yourself to say
what you don't know! Be so good as to ride to General Barclay and inform him of my firm intention to attack the enemy tomorrow," said

Kutuzov sternly.

All were silent, and the only sound audible was the heavy breathing of the panting old general.

"They are repulsed everywhere, for which I thank God and our brave army! The enemy is beaten, and tomorrow we shall drive him from the sacred soil of Russia," said Kutuzov crossing himself, and he suddenly sobbed as his eyes filled with tears.

Wolzogen, shrugging his shoulders and curling his lips, stepped silently aside, marveling at "the old gentleman's" conceited stupidity.

"Ah, here he is, my hero!" said Kutuzov to a portly, handsome, dark-haired general who was just ascending the knoll.

This was Raevski, who had spent the whole day at the most important part of the field of Borodino.

Raevski reported that the troops were firmly holding their ground and that the French no longer ventured to attack.

After hearing him, Kutuzov said in French:

"Then you do not think, like some others, that we must retreat?"

"On the contrary, your Highness, in indecisive actions it is always the most stubborn who remain victors," replied Raevski, "and in my opinion..."

"Kaysarov!" Kutuzov called to his adjutant. "Sit down and write out the order of the day for tomorrow. And you," he continued, addressing another, "ride along the line and that tomorrow we attack."

While Kutuzov was talking to Raevski and dictating the order of the day, Wolzogen returned from Barclay and said that General Barclay wished to have written confirmation of the order the field marshal had given.

Kutuzov, without looking at Wolzogen, gave directions for the order to be written out which the former commander in chief, to avoid personal responsibility, very judiciously wished to receive.

And by means of that mysterious indefinable bond which maintains throughout an army one and the same temper, known as

"the spirit of
the army," and which constitutes the sinew of war, Kutuzov's words, his order for a battle next day, immediately became known from one end of the army to the other.

It was far from being the same words or the same order that reached the farthest links of that chain. The tales passing from mouth to mouth at different ends of the army did not even resemble what Kutuzov had said, but the sense of his words spread everywhere because what he said was not the outcome of cunning calculations, but of a feeling that lay in the commander in chief's soul as in that of every Russian.

And on learning that tomorrow they were to attack the enemy, and hearing from the highest quarters a confirmation of what they wanted to believe, the exhausted, wavering men felt comforted and inspirited.

CHAPTER XXXVI

Prince Andrew's regiment was among the reserves which till after one o'clock were stationed inactive behind Semenovsk, under heavy artillery fire. Toward two o'clock the regiment,
having already lost
more than two hundred men, was moved forward into a trampled oatfield in the gap between Semenovsk and the Knoll Battery, where thousands of men perished that day and on which an intense, concentrated fire from several hundred enemy guns was directed between one and two o'clock.

Without moving from that spot or firing a single shot the regiment here lost another third of its men. From in front and especially from the right, in the unlifting smoke the guns boomed, and out of the mysterious domain of smoke that overlay the whole space in front, quick hissing cannon balls and slow whistling shells flew unceasingly. At times, as if to allow them a respite, a quarter of an hour passed during which the cannon balls and shells all flew overhead, but sometimes several men were torn from the regiment in a minute and the slain were continually being dragged away and the wounded carried off.

With each fresh blow less and less chance of life remained for those not yet killed.

The regiment stood in columns of battalion, three hundred paces apart, but nevertheless the men were always in one and the same mood. All alike were taciturn and morose. Talk was rarely heard in the ranks, and it ceased altogether every time the thud of a successful shot and the cry of "stretchers!" was heard. Most of the time, by their officers' order, the men sat on the ground. One, having taken off his shako, carefully loosened the gathers of its lining and drew them tight again; another, rubbing some dry clay between his palms, polished his bayonet; another fingered the strap and pulled the buckle of his bandolier, while another smoothed and refolded his leg bands and put his boots on again. Some built little houses of the tufts in the plowed ground, or plaited baskets from the straw in the cornfield. All seemed fully absorbed in these pursuits. When men were killed or wounded, when rows of stretchers went past, when some troops retreated, and when great masses of the enemy came into view through the smoke, no one paid any attention to these things. But when our artillery or cavalry advanced or some of our infantry were seen to move forward, words of approval were heard on all sides. But the liveliest attention was attracted by occurrences quite apart from, and unconnected with, the battle. It was as if the minds of these morally exhausted men found relief in everyday, commonplace occurrences. A battery of artillery was passing in front of the regiment. The horse of an ammunition cart put its leg over a trace. "Hey, look at the trace horse!... Get her leg out! She'll fall.... Ah, they don't see it!" came identical shouts from the ranks all along the regiment. Another time, general attention was attracted by a small brown dog, coming heaven knows whence, which trotted in a preoccupied manner in front of the ranks with tail stiffly erect till suddenly a shell fell close by, when it yelped, tucked its tail between its legs, and darted aside. Yells and shrieks of laughter rose from the whole regiment. But such distractions lasted only a moment, and for eight hours the men had been inactive, without food, in constant fear of death, and their pale and gloomy faces grew ever paler and gloomier.

Prince Andrew, pale and gloomy like everyone in the regiment, paced up and down from the border of one patch to another, at the edge of the meadow beside an oatfield, with head bowed and arms behind his back. There was nothing for him to do and no orders to be given. Everything went on of itself. The killed were dragged from the front, the wounded carried away, and the ranks closed up. If any soldiers ran to the rear they returned immediately and hastily. At first Prince Andrew, considering it his duty to rouse the courage of the men and to set them an example, walked about among the ranks, but he soon became convinced that this was unnecessary and that there was nothing he could teach them. All the powers of his soul,

as of every soldier there, were unconsciously bent on avoiding the contemplation of the horrors of their situation. He walked along the meadow, dragging his feet, rustling the grass, and gazing at the dust that covered his boots; now he took big strides trying to keep to the footprints left on the meadow by the mowers, then he counted his steps, calculating how often he must walk from one strip to another to walk a mile, then he stripped the flowers from the wormwood that grew along a boundary rut, rubbed them in his palms, and smelled their pungent, sweetly bitter scent. Nothing remained of the previous day's thoughts. He thought of nothing. He listened with weary ears to the ever-recurring sounds, distinguishing the whistle of flying projectiles from the booming of the reports, glanced at the tiresomely familiar faces of the men of the first battalion, and waited. "Here it comes... this one is coming our way again!" he thought, listening to an approaching whistle in the hidden region of smoke. "One, another! Again! It has hit...." He stopped and looked at the ranks. "No, it has gone over. But this one has hit!" And again he started trying to reach the boundary strip in sixteen paces. A whizz and a thud! Five paces from him, a cannon ball tore up the dry earth and disappeared. A chill ran down his back. Again he glanced at the ranks. Probably many had been hit--a large crowd had gathered near the second battalion.

"Adjutant!" he shouted. "Order them not to crowd together."

The adjutant, having obeyed this instruction, approached Prince Andrew. From the other side a battalion commander rode up.

"Look out!" came a frightened cry from a soldier and, like a bird whirring in rapid flight and alighting on the ground, a shell dropped with little noise within two steps of Prince Andrew and close to the battalion commander's horse. The horse first, regardless of whether it was right or wrong to show fear, snorted, reared almost throwing the major, and galloped aside. The horse's terror infected the men.

"Lie down!" cried the adjutant, throwing himself flat on the ground.

Prince Andrew hesitated. The smoking shell spun like a top between him and the prostrate adjutant, near a wormwood plant between the field and the meadow.

"Can this be death?" thought Prince Andrew, looking with a quite new, envious glance at the grass, the wormwood, and the streamlet of smoke that curled up from the rotating black ball. "I cannot, I do not wish to die. I love life--I love this grass, this earth, this air...."

He thought this, and at the same time remembered that people were looking at him.

"It's shameful, sir!" he said to the adjutant. "What..."

He did not finish speaking. At one and the same moment came the sound of an explosion, a whistle of splinters as from a breaking window frame, a suffocating smell of powder, and Prince Andrew started to one side, raising his arm, and fell on his chest. Several officers ran up to him. From the right side of his abdomen, blood was welling out making a large
stain on the grass.

The militiamen with stretchers who were called up stood behind the officers. Prince Andrew lay on his chest with his face in the grass, breathing heavily and noisily.

"What are you waiting for? Come along!"

The peasants went up and took him by his shoulders and legs, but he moaned piteously and, exchanging looks, they set him down again.

"Pick him up, lift him, it's all the same!" cried someone.

They again took him by the shoulders and laid him on the stretcher.

"Ah, God! My God! What is it? The stomach? That means death! My God!"--voices among the officers were heard saying.

"It flew a hair's breadth past my ear," said the adjutant.

The peasants, adjusting the stretcher to their shoulders, started hurriedly along the path they had trodden down, to the dressing station.

"Keep in step! Ah... those peasants!" shouted an officer, seizing by their shoulders and checking the peasants, who were walking unevenly and jolting the stretcher.

"Get into step, Fedor...
I say, Fedor!" said the foremost peasant.

"Now that's right!" said the one behind joyfully, when he had got into step.

"Your excellency! Eh, Prince!" said the trembling voice of Timokhin, who had run up and was looking down on the stretcher.

Prince Andrew opened his eyes and looked up at the speaker from the stretcher into which his head had sunk deep and again his eyelids drooped.

The militiamen carried Prince Andrew to dressing station by the wood, where wagons were stationed. The dressing station consisted of three tents with flaps turned back, pitched at the edge of a birch wood. In the wood, wagons and horses were standing. The horses were eating oats from their movable troughs and sparrows flew down and pecked the grains that fell. Some crows, scenting blood, flew among the birch trees cawing impatiently. Around the tents, over more than five acres, bloodstained men in various garbs stood, sat, or lay. Around the wounded stood crowds of soldier stretcher-bearers with dismal and attentive faces, whom the officers keeping order tried in vain to drive from the spot. Disregarding the officers' orders, the soldiers stood leaning against their stretchers and gazing intently, as if trying to comprehend the difficult problem of what was taking place before them. From the tents came now loud angry cries and now plaintive groans. Occasionally dressers ran out to fetch water, or to point out those who were to be brought in next. The wounded men awaiting their turn outside the tents groaned, sighed, wept, screamed, swore, or asked for vodka. Some were delirious. Prince Andrew's bearers, stepping over the wounded who had not yet been bandaged, took him, as a regimental commander, close up to one of the tents and there stopped, awaiting instructions. Prince Andrew opened his eyes and for a long time could not make out what was going on around him. He remembered the meadow, the wormwood, the field, the whirling black ball, and his sudden rush of passionate love of life.

Two steps from him, leaning against a branch and talking loudly and attracting general attention, stood a tall, handsome, black-haired noncommissioned officer with a bandaged head. He had been wounded in the head and leg by bullets. Around him, eagerly listening to his talk, a crowd of wounded and stretcher-bearers was gathered.

"We kicked him out from there so that he chucked everything, we grabbed the King himself!" cried he, looking around him with eyes that glittered with fever. "If only reserves had come up just then, lads, there wouldn't have been nothing left of him! I tell you surely..."

Like all the others near the speaker, Prince Andrew looked at him with shining eyes and experienced a sense of comfort. "But isn't it all the same now?" thought he. "And what will be there, and what has there been here? Why was I so reluctant to part with life? There was something in this life I did not and do not understand."

CHAPTER XXXVII

One of the doctors came out of the tent in a bloodstained apron, holding a cigar between the thumb and little finger of one of his small bloodstained hands, so as not to smear it. He raised his head and looked about him, but above the level of the wounded men. He evidently wanted a little respite. After turning his head from right to left for some time, he sighed and looked down.

"All right, immediately," he replied to a dresser who pointed Prince Andrew out to him, and he told them to carry him into the tent.

Murmurs arose among the wounded who were waiting.

"It seems that even in the next world only the gentry are to have a chance!" remarked one.

Prince Andrew was carried in and laid on a table that had only just been cleared and which a dresser was washing down. Prince Andrew could not make out distinctly what was in that tent. The pitiful groans from all sides and the torturing pain in his thigh, stomach, and back distracted him. All he saw about him merged into a general impression of naked, bleeding human bodies that seemed to fill the whole of the low tent, as a few weeks previously, on that hot August day, such bodies had filled the dirty pond beside the Smolensk road. Yes, it was the same flesh, the same chair a canon, the sight of which had even then filled him with horror, as by a presentiment.

There were three operating tables in the tent. Two were occupied, and on the third they placed Prince Andrew. For a little while he was left alone and involuntarily witnessed what was taking place on the other two tables. On the nearest one sat a Tartar, probably a Cossack, judging by the uniform thrown down beside him. Four soldiers were holding him, and a spectacled doctor was cutting into his muscular brown back.

"Ooh, ooh, ooh!" grunted the Tartar, and suddenly lifting up his swarthy snub-nosed face with its high cheekbones, and baring his white teeth, he began to wriggle and twitch his body and utter piercing, ringing, and prolonged yells. On the other table, round which many

people were crowding,
a tall well-fed man lay on his back with his
head thrown back. His curly hair, its color, and the shape of his head seemed strangely familiar to Prince Andrew. Several dressers were pressing on his chest to hold him down. One large, white, plump leg twitched rapidly all the time with a feverish tremor. The man was sobbing and choking convulsively. Two doctors--one of whom was pale and trembling--were silently doing something to this man's other, gory leg. When he had finished with the Tartar, whom they covered with an overcoat, the spectacled doctor came up to Prince Andrew, wiping his hands.

He glanced at Prince Andrew's face and quickly turned away.

"Undress him! What are you waiting for?" he cried angrily to the dressers.

His very first, remotest recollections of childhood came back to Prince Andrew's mind when the dresser with sleeves rolled up began hastily to undo the buttons of his clothes and undressed him. The doctor bent down over the wound, felt it, and sighed deeply.
Then he
made a sign to someone, and the torturing pain in his abdomen caused Prince Andrew to lose consciousness. When he came to himself the splintered portions of his thighbone had been extracted, the torn flesh cut away, and the wound bandaged. Water was being sprinkled on his face. As soon as Prince Andrew opened his eyes, the doctor bent over, kissed him silently on the lips, and hurried away.

After the sufferings he had been enduring, Prince Andrew enjoyed a blissful feeling such as he had not experienced for a long time. All the best and happiest moments of his life--especially his earliest childhood, when he used to be undressed and put to bed, and when leaning over him his nurse sang him to sleep and he, burying his head in the pillow, felt happy in the mere consciousness of life-returned to his memory, not merely as something past but as something present.

The doctors were busily engaged with the wounded man the shape of whose head seemed familiar to Prince Andrew: they
were lifting him
up and trying to quiet him.

"Show it to me.... Oh, ooh... Oh! Oh, ooh!" his frightened moans could be heard, subdued by suffering and broken by sobs.

Hearing those moans Prince Andrew wanted to weep.
Whether because he was dying without glory, or because he was sorry to

part with life, or because of those memories of a childhood that could not return, or because he was suffering and others were suffering and that man near him was groaning so piteously--he felt like weeping childlike, kindly, and almost happy tears.

The wounded man was shown his amputated leg stained with clotted blood and with the boot still on.

"Oh! Oh, ooh!" he sobbed, like a woman.

The doctor who had been standing beside him, preventing Prince Andrew from seeing his face, moved away.

"My God! What is this? Why is he here?" said Prince Andrew to himself.

In the miserable, sobbing, enfeebled man whose leg had just been amputated, he recognized Anatole Kuragin. Men were supporting him in their arms
and offering him a glass of water, but his trembling, swollen lips could not grasp its rim. Anatole was sobbing painfully. "Yes, it is he! Yes, that man is somehow closely and painfully connected with me," thought Prince Andrew, not yet clearly grasping what he saw before him. "What is the connection of that man with my childhood and life?" he asked himself without finding an answer. And suddenly a new unexpected memory from that realm of pure and loving childhood presented itself to him. He remembered Natasha as he had seen her for the first time at the ball in 1810, with her slender neck and arms and with a frightened happy face ready for rapture, and love and tenderness for her, stronger and more vivid than ever, awoke in his soul. He now remembered the connection that existed between himself and this man who was dimly gazing at him through tears that filled his swollen eyes. He remembered everything, and ecstatic pity and love for that man overflowed his happy heart.

Prince Andrew
could no longer restrain himself and wept tender loving tears for his fellow men, for himself, and for his own and their errors.

"Compassion, love of our brothers, for those who love us and for those who hate us, love of our enemies; yes, that love which God preached on earth and which Princess Mary taught me and I did not understand--that is what made me sorry to part with life, that is what remained for me had I lived. But now it is too late. I know it!"

CHAPTER XXXVIII

The terrible spectacle of the battlefield covered with dead and wounded, together with the heaviness of his head and the news that some twenty generals he knew personally had been killed or wounded, and the consciousness of the impotence of his once mighty arm, produced an unexpected impression on Napoleon who usually liked to look at the killed and wounded, thereby, he considered, testing his strength of mind. This day the horrible appearance of the battlefield overcame that strength of mind which he thought constituted his merit and his greatness. He rode hurriedly from the battlefield and returned to the Shevardino knoll, where he sat on his campstool, his sallow face swollen and heavy, his eyes dim, his nose red, and his voice hoarse, involuntarily listening, with downcast eyes, to the sounds of firing. With painful dejection he awaited the end of this action, in which he regarded himself as a participant and which he was unable to arrest. A personal, human feeling for a brief moment got the better of the artificial phantasm of life he had served so long. He felt in his own person the sufferings and death he had witnessed on the battlefield. The heaviness of his head and chest reminded him of the possibility of suffering and death for himself. At that moment he did not desire Moscow, or victory, or glory (what need had he for any more glory?). The one thing he wished for was rest, tranquillity, and freedom. But when he had been on the Semenovsk heights the artillery commander had proposed to him to bring several batteries of artillery up to those heights to strengthen the fire on the Russian troops crowded in front of Knyazkovo. Napoleon had assented and had given orders that news should be brought to him of the effect those batteries produced.

An adjutant came now to inform him that the fire of two hundred guns had been concentrated on the Russians, as he had ordered, but that they still held their ground.

"Our fire is mowing them down by rows, but still they hold on," said the adjutant.

"They want more!..." said Napoleon in a hoarse voice.

"Sire?" asked the adjutant who had not heard the remark.

"They want more!" croaked Napoleon frowning. "Let them have it!"

Even before he gave that order the thing he did not desire, and for which he gave the order only because he thought it was expected of him, was being done. And he fell back into that artificial realm of imaginary greatness, and again--as a horse walking a treadmill thinks it is doing something for itself--he submissively fulfilled the cruel, sad, gloomy, and inhuman role predestined for him.

And not for that day and hour alone were the mind and conscience darkened of this man on whom the responsibility for what was happening lay more than on all the others who took part in it. Never to the end of his life could he understand goodness, beauty, or truth, or the significance of his actions which were too contrary to goodness and truth, too remote from everything human, for him ever to be able to grasp their meaning. He could not disavow his actions, belauded as they were by half the world, and so he had to repudiate truth, goodness, and all humanity.

Not only on that day, as he rode over the battlefield strewn with men killed and maimed (by his will as he believed), did he reckon as he looked at them how many Russians there were for each Frenchman and, deceiving himself, find reason for rejoicing in the calculation that there were five Russians for every Frenchman. Not on that day alone did he write in a letter to Paris that "the battle field was superb," because fifty thousand corpses lay there, but even on the island of St. Helena in the peaceful solitude where he said he intended to devote his leisure to an account of the great deeds he had done, he wrote:

The Russian war should have been the most popular war of modern times: it was a war of good sense, for real interests, for the tranquillity and security of all; it was purely pacific and conservative.

It was a war for a great cause, the end of uncertainties and the beginning of security. A new horizon and new labors were opening out, full of well-being and prosperity for all. The European system was already founded; all that remained was to organize it.

Satisfied on these great points and with tranquility everywhere, I too should have had my Congress and my Holy Alliance. Those ideas were stolen from me. In that reunion of great sovereigns we should have discussed our interests like one family, and have rendered account to the peoples as clerk to master.

Europe would in this way soon have been, in fact, but one people, and anyone who traveled anywhere would have found himself always in the common fatherland. I should have demanded the freedom of all navigable rivers for everybody, that the seas should be common to all, and that the great standing armies should be reduced henceforth to mere guards for the sovereigns.

On returning to France, to the bosom of the great, strong, magnificent, peaceful, and glorious fatherland, I should have proclaimed her frontiers immutable; all future wars purely defensive, all aggrandizement antinational. I should have associated my son in the Empire; my dictatorship would have been finished, and his constitutional reign would have begun.

Paris would have been the capital of the world, and the French the envy of the nations!

My leisure then, and my old age, would have been devoted, in company with the Empress and during the royal apprenticeship of my son, to leisurely visiting, with our own horses and like a true country couple, every corner of the Empire, receiving complaints, redressing wrongs, and scattering public buildings and benefactions on all sides and everywhere.

Napoleon, predestined by Providence for the gloomy role of executioner of the peoples, assured himself that the aim of his actions had been the peoples' welfare and that he could control the fate of millions and by the employment of power confer benefactions.

"Of four hundred thousand who crossed the Vistula," he wrote further of the Russian war, "half were Austrians, Prussians, Saxons, Poles, Bavarians, Wurttembergers, Mecklenburgers, Spaniards, Italians, and Neapolitans. The Imperial army, strictly speaking, was one third composed of Dutch, Belgians, men from the borders of the Rhine, Piedmontese, Swiss, Genevese, Tuscans, Romans, inhabitants of the Thirty-second Military Division, of Bremen, of Hamburg, and so on: it included scarcely a hundred and forty thousand who spoke French.
The Russian expedition actually cost France less than fifty thousand men; the Russian army in its retreat from Vilna to Moscow lost in the various battles four times more men than the French army; the burning of Moscow cost the lives of a hundred thousand Russians who died of cold and want in the woods; finally, in its march from Moscow to the Oder the Russian army also suffered from the severity of the season; so that by the the time it reached Vilna it numbered

only fifty thousand, and at Kalisch less than eighteen thousand."

He imagined that the war with Russia came about by his will, and the horrors that occurred did not stagger his soul. He boldly took the whole responsibility for what happened, and his darkened mind found justification in the belief that among the hundreds of thousands who perished there were fewer Frenchmen than Hessians and Bavarians.

CHAPTER XXXIX

Several tens of thousands of the slain lay in diverse postures and various uniforms
on the fields and meadows belonging to the Davydov family and to the crown serfs--those fields and meadows where for hundreds of years the peasants of Borodino, Gorki, Shevardino, and Semenovsk had reaped their harvests and pastured their cattle. At the dressing stations the grass and earth were soaked with blood for a space of some three acres around. Crowds of men of various arms, wounded and unwounded, with frightened faces, dragged themselves back to Mozhaysk from the one army and back to Valuevo from the other. Other crowds, exhausted and hungry, went forward led by their officers. Others held their ground and continued to fire.

Over the whole field, previously so gaily beautiful with the glitter of bayonets and cloudlets of smoke in the morning sun, there now spread a mist of damp and smoke and a strange acid smell of saltpeter and blood. Clouds gathered and drops of rain began to fall on the dead and wounded, on the frightened, exhausted, and hesitating men, as if to say:
"Enough, men! Enough! Cease... bethink yourselves! What are you doing?"

To the men of both sides alike, worn out by want of food and rest, it began equally to appear doubtful whether they should continue to slaughter one another; all the faces expressed hesitation, and the question arose in every soul: "For what, for whom, must I kill and be killed?... You may go and kill whom you please, but I don't want to do so anymore!" By evening this thought had ripened in every soul. At any moment these men might have been seized with horror at what they were doing and might have thrown up everything and run away anywhere.

But though toward the end of the battle the men felt all the horror of what they were doing, though they would have been glad to leave off, some incomprehensible, mysterious power continued to control them, and they still brought up the charges, loaded, aimed, and applied the match, though only one artilleryman survived out of every three, and though they stumbled and panted with fatigue, perspiring and stained with blood and powder. The cannon balls flew just as swiftly and cruelly from both sides, crushing human bodies, and that terrible work which was not done by the will of a man but at the will of Him who governs men and worlds continued.

Anyone looking at the disorganized rear of the Russian army would have said that, if only the French made one more slight effort, it would disappear; and anyone looking at the rear of the French army would have said that the Russians need only make one more slight effort and the French would be destroyed. But neither the French nor the Russians made that effort, and the flame of battle burned slowly out.

The Russians did not make that effort because they were not attacking the French. At the beginning of the battle they stood blocking the way to Moscow and they still did so at the end of the battle as at the beginning. But even had the aim of the Russians been to drive the French from their positions, they could not have made this last effort, for all the Russian troops had been broken up, there was no part of the Russian army that had not suffered in the battle, and though still holding their positions they had lost ONE HALF of their army.

The French, with the memory of all their former victories during fifteen years, with the assurance of Napoleon's invincibility, with the consciousness that they had captured part of the battlefield and had lost only a quarter of their men and still had their Guards intact, twenty thousand strong, might easily have made that effort. The French had attacked the Russian army in order to drive it from its position ought to have made that effort, for as long as the Russians continued to block the road to Moscow as before, the aim of the French had not been attained and all their efforts and losses were in vain. But the French did not make that effort. Some historians say that Napoleon need only have used his Old Guards, who were intact, and the battle would have been won. To speak of what would have happened had Napoleon sent his Guards is like talking of what would happen if autumn became spring. It could not be. Napoleon did not give his Guards, not because he did not want to, but because it could not be done. All the generals, officers, and soldiers of the French army knew

it could not be done, because the flagging spirit of the troops would not permit it.

It was not Napoleon alone who had experienced that nightmare feeling of the mighty arm being stricken powerless, but all the generals and soldiers of his army whether they had taken part in the battle or not, after all their experience of previous battles--when after one tenth of such efforts the enemy had fled--experienced a similar feeling of terror before an enemy who, after losing HALF his men, stood as threateningly at the end as at the beginning of the battle. The moral force of the attacking French army was exhausted. Not that sort of victory which is defined by the capture of pieces of material fastened to sticks, called standards, and of the ground on which the troops had stood and were standing, but a moral victory that convinces the enemy of the moral superiority of his opponent and of his own impotence was gained by the Russians at Borodino. The French invaders, like an infuriated animal that has in its onslaught received a mortal wound, felt that they were perishing, but could not stop, any more than the Russian army, weaker by one half, could help swerving. By impetus gained, the French army was still able to roll forward to Moscow, but there, without further effort on the part of the Russians, it had to perish, bleeding from the mortal wound it had received at Borodino. The direct consequence of the battle of Borodino was Napoleon's senseless flight from Moscow, his retreat along the old Smolensk road, the destruction of the invading army of five hundred thousand men, and the downfall of Napoleonic France, on which at Borodino for the first time the hand of an opponent of stronger spirit had been laid.

BOOK ELEVEN: 1812

CHAPTER I

Absolute continuity of motion is not comprehensible to the human mind. Laws of motion of any kind become comprehensible to man only when he examines arbitrarily selected elements of that motion; but at the same time, a large proportion of human error comes from the

arbitrary division of continuous motion into discontinuous elements. There is a well known, so-called sophism of the ancients consisting in this, that Achilles could never catch up with a tortoise he was following, in spite of the fact that he traveled ten times as fast as the tortoise. By the time Achilles has covered the distance that separated him from the tortoise, the tortoise has covered one tenth of that distance ahead of him: when Achilles has covered that tenth, the tortoise has covered another one hundredth, and so on forever. This problem seemed to the ancients insoluble. The absurd answer (that Achilles could never overtake
the tortoise) resulted from this: that
motion was arbitrarily divided into discontinuous elements, whereas the motion both of Achilles and of the tortoise was continuous.

By adopting smaller and smaller elements of motion we only approach a solution of the problem, but never reach it. Only when we have admitted the conception of the infinitely small, and the resulting geometrical progression with a common ratio of one tenth, and have found the sum of this progression to infinity, do we reach a solution of the problem.

A modern branch of mathematics having achieved the art of dealing with the infinitely small can now yield solutions in other more complex problems of motion which used to appear insoluble.

This modern branch of mathematics, unknown to the ancients, when dealing with problems of motion admits the conception of the infinitely small, and so conforms to the chief condition of motion (absolute continuity) and thereby corrects the inevitable error which the human mind cannot
avoid when it deals with separate elements
of motion instead of examining continuous motion.

In seeking the laws of historical movement just the same thing happens. The movement of humanity, arising as it does from innumerable arbitrary human wills, is continuous.

To understand the laws of this continuous movement is the aim of history. But to arrive at these laws, resulting from the sum of all those human wills, man's mind postulates arbitrary and disconnected units. The first method of history is to take an arbitrarily selected series of continuous events and examine it apart from others, though there is and can be no beginning to any event, for one event always flows uninterruptedly from another.

The second method is to consider the actions of some one man--a king or a commander--as equivalent to the sum of many individual wills; whereas the sum of individual wills is never expressed by the activity

of a single historic personage.

Historical science in its endeavor to draw
nearer to truth
continually takes smaller and smaller units for examination. But however small the units it takes, we feel that to take any unit disconnected from others, or to assume a beginning of any phenomenon, or to say that the will of many men is expressed by the actions of any one historic personage, is in itself false.

It needs no critical exertion to reduce utterly to dust any deductions drawn from history. It is merely necessary to select some larger or smaller unit as the subject of observation--as criticism has every right to do, seeing that whatever unit history observes must always be arbitrarily selected.

Only by taking infinitesimally small units for observation (the differential of history, that is, the individual tendencies of men) and attaining to the art of integrating them (that is, finding the sum of these infinitesimals) can we hope to arrive at the laws of history.

The first fifteen years of the nineteenth century in Europe
present an extraordinary movement
of millions of people. Men leave
their customary pursuits, hasten from one side of Europe to the other, plunder and slaughter one another, triumph and are plunged in despair, and for some years the whole course of life is altered and presents an intensive movement which first increases and then slackens. What was the cause of this movement, by what laws was it governed? asks the mind of man.

The historians, replying to this question, lay before us the sayings and doings of a few dozen men in a building in the city of Paris, calling these sayings and doings "the Revolution"; then they give a detailed biography of Napoleon and of certain people favorable or hostile to him; tell of the influence some of these people had on others, and say: that is why this movement took place and those are its laws.

But the mind of man not only refuses to believe this explanation, but plainly says that this method of explanation is fallacious, because in it a weaker phenomenon is taken as the cause of
a stronger.
The sum of human wills produced the Revolution and Napoleon, and only the sum of those wills first tolerated and then destroyed them.

"But every time there have been conquests there have been conquerors; every time there has been a revolution in any state

there have been great men," says history. And, indeed, human reason replies: every time conquerors appear there have been wars, but this does not prove that the conquerors caused the wars and that it is possible to find the laws of a war in the personal activity of a single man. Whenever I look at my watch and its hands point to ten, I hear the bells of the neighboring church; but because the bells begin to ring when the hands of the clock reach ten, I have no right to assume that the movement of the bells is caused by the position of the hands of the watch.

Whenever I see the movement of a locomotive I hear the whistle and see the valves opening and wheels turning; but I have no right to conclude that the whistling and
the turning of wheels are the cause of
the movement of the engine.

The peasants say that a cold wind blows in late spring because the oaks are budding, and really every spring cold winds do blow when the oak is budding. But though I do not know what causes the cold winds to blow when the oak buds unfold, I cannot agree with the peasants that the unfolding of the oak buds is the cause of the cold wind, for the force of the wind is beyond the influence of the buds. I see only a coincidence of occurrences such as happens with all the phenomena of life, and I see that however much and however carefully I observe the hands of the watch, and the valves and wheels of the engine, and the oak, I shall not discover the cause of the bells ringing, the engine moving, or of the winds of spring. To that I must entirely change my point of view and study the laws of the movement of steam, of the bells, and of the wind. History must do the same. And attempts in this direction have already been made.

To
study the laws of history we must completely change the subject of our observation, must leave aside kings, ministers, and generals, and the common, infinitesimally small elements by which the masses are moved. No one can say in how far it is possible for man to advance in this way toward an understanding of the laws of history; but it is evident that only along that path does the possibility of discovering the laws of history lie, and that as yet not a millionth part as much mental effort has been applied in this direction by historians as has been devoted to describing the actions of various kings, commanders, and ministers and propounding the historians' own reflections concerning these actions.

CHAPTER II

The forces of a dozen European nations burst into Russia. The Russian army and people avoided a collision till Smolensk was reached, and again from Smolensk to Borodino. The French army pushed on to Moscow, its goal, its impetus ever increasing as it neared its aim, just as the velocity of a falling body increases as it approaches the earth. Behind it were seven hundred miles of hunger-stricken, hostile country; ahead were a few dozen miles separating it from its goal. Every soldier in Napoleon's army felt this and the invasion moved on by its own momentum.

The more the Russian army retreated the more fiercely a spirit of hatred of the enemy flared up, and while it retreated the army increased and consolidated. At Borodino a collision took place. Neither army was broken up, but the Russian army retreated immediately after the collision as inevitably as a ball recoils after colliding with another having a greater momentum, and with equal inevitability the ball of invasion that had advanced with such momentum rolled on for some distance, though the collision had deprived it of all its force.

The Russians retreated eighty miles--to beyond Moscow--and the French reached Moscow and there came to a standstill. For five weeks after that there was not a single battle. The French did not move. As a bleeding, mortally wounded animal licks its wounds, they remained inert in Moscow for five weeks, and then suddenly, with no fresh reason, fled back: they made a dash for the Kaluga road, and (after a victory--for at Malo-Yaroslavets the field of conflict again remained theirs) without undertaking a single serious battle, they fled still more rapidly back to Smolensk, beyond Smolensk, beyond the Berezina, beyond Vilna, and farther still.

On the evening of the twenty-sixth of August, Kutuzov and the whole Russian army were convinced that the battle of Borodino was a victory. Kutuzov reported so to the Emperor. He gave orders to prepare for a fresh conflict to finish the enemy and did this not to deceive anyone, but because he knew that the enemy was beaten, as everyone who had taken part in the battle knew it.

But all that evening and next day reports came in one after another of unheard-of losses, of the loss of half the army, and a fresh battle proved physically impossible.

It was impossible to give battle before information had been collected, the wounded gathered in, the supplies of ammunition replenished, the slain reckoned up, new officers appointed to replace those who had been killed, and before the men had had food and sleep. And meanwhile, the very next morning after the battle, the French army advanced of itself upon the Russians, carried forward by the force of its own momentum now seemingly increased in inverse proportion to the square of the distance from its aim. Kutuzov's wish was to attack next day, and the whole army desired to do so. But to make an attack the wish to do so is not sufficient, there must also be a possibility of doing it, and that possibility did not exist. It was impossible not to retreat a day's march, and then in the same way it was impossible not to retreat another and a third day's march, and at last, on the first of September when the army drew near Moscow--despite the strength of the feeling that had arisen in all ranks--the force of circumstances compelled it to retire beyond Moscow. And the troops retired one more, last, day's march, and abandoned Moscow to the enemy.

For people accustomed to think that plans of campaign and battles are made by generals--as any one of us sitting over a map in his study may imagine how he would have arranged things in this or that battle--the questions present themselves: Why did Kutuzov during the retreat not do this or that? Why did he not take up a position before reaching Fili? Why did he not retire at once by the Kaluga road, abandoning Moscow? and so on. People accustomed to think in that way forget, or do not know, the inevitable conditions which always limit the activities of any commander in chief. The activity of a commander in chief does not all resemble the activity we imagine to ourselves when we sit at case in our studies examining some campaign on the map, with a certain number of troops on this and that side in a certain known locality, and begin our plans from some given moment. A commander in chief is never dealing with the beginning of any event- the position from which we always contemplate it. The commander in chief is always in the midst of a series of shifting events and so he never can at any moment consider the whole import of an event that is occurring. Moment by moment the event is imperceptibly shaping itself, and at every moment of this continuous, uninterrupted shaping of events the commander in chief is in the midst of a most complex play of intrigues, worries, contingencies, authorities, projects, counsels, threats, and deceptions and is continually obliged to reply to innumerable questions addressed to him, which constantly conflict with one another.

Learned military authorities quite seriously tell us that Kutuzov should have moved his army to the Kaluga road long before reaching

Fili, and that somebody actually submitted such a proposal to him. But a commander in chief, especially
at a difficult moment, has always
before him not one proposal but dozens simultaneously. And all these proposals, based on strategics and tactics, contradict each other.

A commander in chief's business, it would seem, is simply to choose one of these projects. But even that he cannot do. Events and time do not wait. For instance, on the twenty-eighth it is suggested to him to cross to the Kaluga road, but just then an adjutant gallops up from Miloradovich asking whether he is to engage the French or retire. An order must be given him at once, that instant. And the order to retreat carries us past the turn to the Kaluga road. And after the adjutant comes the commissary general asking where the stores are to be taken, and the chief of the hospitals asks where the wounded are to go, and a courier from Petersburg brings a letter from the sovereign which does not admit of the possibility of abandoning Moscow, and the commander in chief's rival, the man who is undermining him (and
there are always not merely one but several
such), presents a new project diametrically opposed to that of turning to the Kaluga road, and the commander in chief himself needs sleep and refreshment to maintain his energy and a respectable general who has been overlooked in the distribution of rewards comes to complain, and the inhabitants of the district pray to be defended, and an officer sent to inspect the locality comes in and gives a report quite contrary to what was said by the officer previously sent; and a spy, a prisoner, and a general who has been on reconnaissance, all describe the position of the enemy's army differently. People accustomed to misunderstand or to forget these inevitable conditions of a commander in chief's actions describe to us, for instance, the position of the army at Fili and assume that the commander in chief could, on the first of September, quite freely decide whether to abandon Moscow or defend it; whereas, with the Russian army less than four miles
from Moscow, no such question existed. When had that question been settled? At Drissa and at Smolensk and most palpably of all on the twenty-fourth of August at Shevardino and on the twenty-sixth at Borodino, and each day and hour and minute of the retreat from Borodino to Fili.

CHAPTER III

When Ermolov, having been sent by Kutuzov to inspect the position, told the field marshal that it was impossible to fight there before Moscow and that they must retreat, Kutuzov looked at him in silence.

"Give me your hand," said he and, turning it over so as to feel the pulse, added: "You are not well, my dear fellow. Think what you are saying!"

Kutuzov could not yet admit the possibility of retreating beyond Moscow without a battle.

On the Poklonny Hill, four miles from the Dorogomilov gate of Moscow, Kutuzov got out of his carriage and sat down on a bench by the roadside. A great crowd of generals gathered round him, and Count Rostopchin, who had come out from Moscow, joined them. This brilliant
company separated into several groups who all discussed the advantages and disadvantages of the position, the state of the army, the plans suggested, the situation of Moscow, and military questions generally. Though they had not been summoned for the purpose, and though it was not so called, they all felt that this was really a council of war. The conversations all dealt with public questions. If anyone gave or asked for personal news, it was done in a whisper and they immediately reverted to general matters. No jokes, or laughter, or smiles even, were seen among all these men. They evidently all made an effort to hold themselves at the height the situation demanded. And all these groups, while talking among themselves, tried to keep near the commander in chief (whose bench formed the center of the gathering) and to speak so that he might overhear them. The commander in chief listened to what was being said and sometimes asked them to repeat their remarks, but did not himself
take part in the conversations or express any opinion. After hearing what was being said by one or other of these groups he generally turned away with an air of disappointment, as though they were not speaking of anything he wished to hear. Some discussed the position that had been chosen, criticizing not the position itself so much as the mental capacity of those who had chosen it. Others argued that a mistake had been made earlier and that a battle should have been fought two days before. Others again spoke of the battle of Salamanca, which was described by Crosart, a newly arrived Frenchman in a Spanish uniform. (This Frenchman and one of the German princes serving with the Russian army were discussing the siege of Saragossa and considering the possibility of defending Moscow in a similar manner.) Count Rostopchin was telling a fourth group that he was prepared to die with the city train bands under the walls of the capital, but that he still could not help regretting having been
left

in ignorance of what was happening, and that had he known it sooner things would have been different.... A fifth group, displaying the profundity of their strategic perceptions, discussed the direction the troops would now have to take. A sixth group was talking absolute nonsense. Kutuzov's expression grew more and more preoccupied and gloomy. From all this talk he saw only one thing: that to defend Moscow was a physical impossibility in the full meaning of those words, that is to say, so utterly impossible that if any senseless commander were to give orders to fight, confusion would result but the battle would still not take place. It would not take place because the commanders not merely all recognized the position to be impossible, but in their conversations were only discussing what would happen after its inevitable abandonment. How could the commanders lead their troops to a field of battle they considered impossible to hold? The lower-grade officers and even the soldiers (who

too reason) also considered the position impossible and therefore could not go to fight, fully convinced as they were of defeat. If Bennigsen insisted on the position being defended and others still discussed it, the question was no longer important in itself but only as a pretext for disputes and intrigue. This Kutuzov knew well.

Bennigsen, who had chosen the position, warmly displayed his Russian patriotism (Kutuzov could not listen to this without wincing) by insisting that Moscow must be defended. His aim was as clear as daylight to Kutuzov: if the defense failed, to throw the blame on Kutuzov who had brought the army as far as the Sparrow Hills without giving battle; if it succeeded, to claim the success as his own; or if battle were not given, to clear himself of the crime of abandoning Moscow. But this intrigue did not now occupy the old man's mind. One terrible question absorbed him and to that question he heard no reply from anyone. The question for him now was: "Have I really allowed

Napoleon to reach Moscow, and when did I do so? When was it decided? Can it have been yesterday when I ordered Platov to retreat, or was it the evening before, when I had a nap and told Bennigsen to issue orders? Or was it earlier still?... When, when was this terrible affair decided? Moscow must be abandoned. The army must retreat and the order to do so must be given." To give that terrible order seemed to him equivalent to resigning the command of the army. And not only did he love power to which he was accustomed (the honours awarded to Prince Prozorovski, under whom he had served in Turkey, galled him), but he was convinced that he was destined to save Russia and that that was why, against the Emperor's wish and by the will of the people, he had been chosen commander in chief. He was convinced that he alone could maintain command of the army in these difficult circumstances, and that in all the world he alone could encounter the invincible Napoleon without fear, and he was

horrified
at the thought of the order he had to issue. But something had to be decided, and these conversations around him which were assuming too free a character must be stopped.

He called the most important generals to him.

"My head, be it good or bad, must depend on itself," said he, rising from the bench, and he rode to Fili where his carriages were waiting.

CHAPTER IV

The Council of War began to assemble at two in the afternoon in the better and roomier part of Andrew Savostyanov's hut. The men, women, and children of the large peasant family crowded into the back room across the passage. Only Malasha, Andrew's six-year-old granddaughter whom his Serene Highness had petted and to whom he had given a lump of sugar while drinking his tea, remained on the top of the brick oven in the larger room. Malasha looked down from the oven with shy delight at the faces, uniforms, and decorations of the generals, who one after another came into the room and sat down on the broad benches
in the corner under the icons. "Granddad" himself, as Malasha in her own mind called Kutuzov, sat apart in a dark corner behind the oven. He sat, sunk deep in a folding armchair, and continually cleared his throat and pulled at the collar of his coat which, though it was unbuttoned, still seemed to pinch his neck. Those who entered went up one by one to the field marshal; he pressed the hands of some and nodded to others. His adjutant Kaysarov was about to draw back the curtain of the window facing Kutuzov, but the latter moved his hand angrily and Kaysarov understood that his Serene Highness did not wish his face to be seen.

Round the peasant's deal table, on which lay maps, plans, pencils, and papers, so many people gathered that the orderlies brought in another bench and put it beside the table. Ermolov, Kaysarov, and Toll, who had just arrived, sat down on this bench. In the foremost place, immediately under the icons, sat Barclay de Tolly, his high forehead merging into his
bald crown. He had a St. George's Cross round his neck and looked pale and ill. He had been feverish for two days and was now shivering and in pain. Beside him sat Uvarov, who with rapid gesticulations was giving him some information, speaking in

low tones as they all did. Chubby little Dokhturov was listening attentively with eyebrows raised and arms folded on his stomach. On the other side sat Count Ostermann-Tolstoy, seemingly absorbed in his own thoughts. His broad head with its bold features and glittering eyes was resting on his hand. Raevski, twitching forward the black hair on his temples as was his habit, glanced now at Kutuzov and now at the door with a look of impatience. Konovnitsyn's firm, handsome, and kindly face was lit up by a tender, sly smile. His glance met Malasha's, and the expression of his eyes caused the little girl to smile.

They were all waiting for Bennigsen, who on the pretext of inspecting the position was finishing his savory dinner. They waited for him
from four till six o'clock and did not begin their
deliberations all that time talked in low tones of other matters.

Only when Bennigsen had entered the hut did Kutuzov leave his corner and draw toward the table, but not near enough for the candles that had been placed there to light up his face.

Bennigsen opened the council with the question: "Are we to abandon Russia's ancient and sacred capital without a struggle, or are we to defend it?" A prolonged and general silence followed. There was a frown on every face and only Kutuzov's angry grunts and occasional cough broke the silence. All eyes were gazing at him. Malasha too looked at "Granddad." She was nearest to him and saw how his face puckered; he seemed about to cry, but this did not last long.

"Russia's ancient and sacred capital!" he suddenly said, repeating Bennigsen's words in an angry voice and thereby drawing attention to the false note in them. "Allow me to tell you, your excellency, that that question has no meaning for
a Russian." (He lurched his heavy
body forward.) "Such a question cannot be put; it is senseless! The question I have asked these gentlemen to meet to discuss is a military one. The question is that of saving Russia. Is it better to give up Moscow without a battle, or by accepting battle to risk losing the army as well as Moscow? That is the question on which I want your opinion," and he sank back in his chair.

The discussion began. Bennigsen did not yet consider his game lost. Admitting the view of Barclay and others that a defensive battle at Fili was impossible, but imbued with Russian patriotism and the love of Moscow, he proposed to move troops from the right to the left flank during the night and attack the French right flank the following day. Opinions were divided, and arguments were advanced for and against that project. Ermolov, Dokhturov, and Raevski agreed

with Bennigsen. Whether feeling it necessary to make a sacrifice before abandoning the capital or guided by other, personal considerations, these generals seemed not to understand that this council could not alter the inevitable course of events and that Moscow was in effect already abandoned. The other generals, however, understood it and, leaving aside the question of Moscow, of the direction the army should take in its retreat. Malasha, who kept her eyes fixed on what was going on before her, understood the meaning of the council differently. It seemed to her that it was only a personal struggle between "Granddad" and "Long-coat" as she termed Bennigsen. She saw that they grew spiteful when they spoke to one another, and in her heart she sided with "Granddad." In the midst of the conversation she noticed "Granddad" give Bennigsen a quick, subtle glance, and then to her joys he saw that "Granddad" said something to "Long-coat" which settled him. Bennigsen suddenly reddened and paced angrily up and down the room. What so affected him was Kutuzov's calm and quiet comment on the advantage or disadvantage of Bennigsen's proposal to move troops by night from the right to the left flank to attack the French right wing.

"Gentlemen," said Kutuzov, "I cannot approve of the count's plan. Moving troops in close proximity to an enemy is always dangerous, and military history supports that view. For instance..." Kutuzov seemed to reflect, searching for an example, then with a clear, naive look at Bennigsen he added: "Oh yes; take the battle of Friedland, which I think the count well remembers, and which was... not fully successful, only because our troops were rearranged too near the enemy..."

There followed a momentary pause, which seemed very long to them all.

The discussion recommenced, but pauses frequently occurred and they all felt that there was no more to be said.

During one of these pauses Kutuzov heaved a deep sigh as if preparing to speak. They all looked at him.

"Well, gentlemen, I see that it is I who will have to pay for the broken crockery," said he, and rising slowly he moved to the table.
"Gentlemen, I have heard your views. Some of you will not agree with me. But I," he paused, "by the authority entrusted to me by my Sovereign and country, order a retreat."

After that the generals began to disperse with the solemnity and

circumspect silence of people who are leaving, after a funeral.

Some of the generals, in low tones and in a strain very different from the way they had spoken during the council, communicated something to their commander in chief.

Malasha, who had long been expected for supper, climbed carefully backwards down from the oven, her bare little feet catching at its projections, and slipping between the legs of the generals she darted out of the room.

When he had dismissed the generals Kutuzov sat a long time with his elbows on the table, thinking always of the same terrible question: "When, when did the abandonment of Moscow become inevitable? When was that done which settled the matter? And who was to blame for it?"

"I did not expect this," said he to his adjutant Schneider when the latter came in late that night. "I did not expect this! I did not think this would happen."

"You should take some rest, your Serene Highness," replied Schneider.

"But no! They shall eat horseflesh yet, like the Turks!" exclaimed Kutuzov without replying, striking the table with his podgy fist. "They shall too, if only..."

CHAPTER V

At that very time, in circumstances even more important than retreating without a battle, namely the evacuation and burning of Moscow, Rostopchin, who is usually represented as being the instigator of that event, acted in an altogether different manner from Kutuzov.

After the battle of Borodino the abandonment and burning of Moscow was as inevitable as the retreat of the army beyond Moscow without fighting.

Every Russian might have predicted it, not by reasoning but by the feeling implanted in each of us and in our fathers.

The same thing that took place in Moscow had happened in all the towns
and villages on Russian soil beginning with Smolensk, without the participation of Count Rostopchin and his broadsheets. The people awaited the enemy unconcernedly, did not riot or become excited or tear anyone to pieces, but faced its fate, feeling within it the strength to find what it should do at that most difficult moment. And as soon as the enemy drew near the wealthy classes went away abandoning their property, while the poorer remained and burned and destroyed what was left.

The consciousness that this would be so and would always be so was and is present in the heart of every Russian. And a consciousness of this, and a foreboding that Moscow would be taken, was present in Russian Moscow society in 1812. Those who had quitted Moscow already in July and at the beginning of August showed that they expected this. Those who went away, taking what they could and abandoning their houses and half their belongings, did so from the latent patriotism which expresses itself not by phrases
or by giving one's children to
save the fatherland and similar unnatural exploits, but unobtrusively, simply, organically, and therefore in the way that always produces the most powerful results.

"It is disgraceful to run away from danger; only cowards are running away from Moscow," they were told. In his broadsheets Rostopchin impressed on them that to leave Moscow was shameful. They were ashamed to be called cowards, ashamed to leave, but still they left, knowing it had to be done. Why did they go? It is impossible to suppose that Rostopchin had scared them by his accounts of horrors Napoleon had committed in conquered countries. The first people to go away were the rich educated people who knew quite well that Vienna and Berlin had remained intact and that during Napoleon's occupation the inhabitants had spent their time pleasantly in the company of the charming Frenchmen whom the Russians, and especially the Russian ladies, then liked so much.

They went away because for Russians
there could be no question as to
whether things would go well or ill under French rule in Moscow. It was out of the question to be under French rule, it would be the worst thing that could happen. They went away even before the battle of Borodino and still more rapidly after it, despite Rostopchin's calls to defend Moscow or the announcement of his intention to take the wonder-working icon of the Iberian Mother of God and go to fight, or of the balloons that were to destroy the French, and despite all the nonsense Rostopchin wrote in his broadsheets. They knew that it was for the army to fight, and that if it could not succeed it would not

do to take young ladies and house serfs to the Three Hills quarter of Moscow to fight Napoleon, and that they must go away, sorry as they were to abandon their property to destruction. They went away without thinking of the tremendous significance of that immense and wealthy city being given over to destruction, for a great city with wooden buildings

was certain when abandoned by its inhabitants to be burned. They went away each on his own account, and yet it was only in consequence of their going away that the momentous event was accomplished that will always remain the greatest glory of the Russian people. The lady who, afraid of being stopped by Count Rostopchin's orders, had already in June moved with her Negroes and her women jesters from Moscow to her Saratov estate, with a vague consciousness that she was not Bonaparte's servant, was really, simply, and truly carrying out the great work which saved Russia. But Count Rostopchin, who now taunted those who left Moscow and now had the government offices removed; now distributed quite useless weapons to the drunken rabble; now had processions displaying the icons, and now forbade Father Augustin to remove icons or the relics of saints; now seized all the private carts in Moscow and on one hundred and thirty-six of them removed the balloon that was being constructed by Leppich;

now hinted that he would burn Moscow and related how he had set fire to his own house; now wrote a proclamation to the French solemnly upbraiding them for having destroyed his Orphanage; now claimed the glory of having hinted that he would burn Moscow and now repudiated the deed; now ordered the people to catch all spies and bring them to him, and now reproached them for doing so; now expelled all the French residents from Moscow, and now allowed Madame Aubert-Chalme (the center of the whole French colony in Moscow) to remain, but ordered the venerable old postmaster Klyucharev to be arrested and exiled for no particular offense; now assembled the people at the Three Hills to fight the French and now, to get rid of them, handed over to them a man to be killed and himself drove away by a back gate; now declared that he would not survive the fall of Moscow, and now wrote French verses in albums concerning his share in the affair--this man did not understand the meaning of what was happening

but merely wanted to do something himself that would astonish people, to perform some patriotically heroic feat; and like a child he made sport of the momentous, and unavoidable event--the abandonment and burning of Moscow--and tried with his puny hand now to speed and now to stay the enormous, popular tide that bore him along with it.

CHAPTER VI

Helene, having returned with the court from Vilna to Petersburg, found herself in a difficult position.

In Petersburg she had enjoyed the special protection of a grandee who occupied one of the highest posts in the Empire. In Vilna she had formed an intimacy with a young foreign prince. When she returned to Petersburg both the magnate and the prince were there, and both claimed their rights. Helene was faced by a new problem--how to preserve her intimacy with both without offending either.

What would have seemed difficult or even impossible to another woman did not cause the least embarrassment to Countess Bezukhova, who evidently
deserved her reputation of being a very clever woman. Had she attempted concealment, or tried to extricate herself from her awkward position by cunning, she would have spoiled her case by acknowledging herself guilty. But Helene, like a really great man who can do whatever he pleases, at once assumed her own position to be correct, as she sincerely believed it to be, and that everyone else was to blame.

The first time the young foreigner allowed himself to reproach her, she lifted her beautiful head and, half turning to him, said firmly: "That's just like a man--selfish and cruel! I expected nothing else. A woman sacrifices herself for you, she suffers, and this is her reward! What right have you, monseigneur, to demand an account of my attachments and friendships? He is a man who has been more than a father to me!" The prince was about to say something, but Helene interrupted him.

"Well, yes," said she, "it may be that he has other sentiments for me than those of a father, but
that is not a reason for me to shut my door on him. I am not a man, that I should repay kindness with ingratitude! Know, monseigneur, that in all that relates to my intimate feelings I render account only to God and to my conscience," she concluded, laying her hand on her beautiful, fully expanded bosom and looking up to heaven.

"But for heaven's sake listen to me!"

"Marry me, and I will be your slave!"

"But that's impossible."

"You won't deign to demean yourself by marrying me, you..." said Helene, beginning to cry.

The prince tried to comfort her, but Helene, as if quite distraught, said through her tears that there was nothing to prevent her marrying, that there were precedents (there were up to that time very few, but she mentioned Napoleon and some other exalted personages), that she had never been her husband's wife, and that she had been sacrificed.

"But the law, religion..." said the prince, already yielding.

"The law, religion... What have they been invented for if they can't arrange that?" said Helene.

The prince was surprised that so simple an idea had not occurred to him, and he applied for advice to the holy brethren of the Society of Jesus, with whom he was on intimate terms.

A few days later at one of those enchanting fetes which Helene gave at her country house on the Stone Island, the charming Monsieur de Jobert, a man no longer young, with snow white hair and brilliant black eyes, a Jesuit a robe courte* was presented to her, and in the garden by the light of the illuminations and to the sound of music talked to her for a long time of the love of God, of Christ, of the Sacred Heart, and of the consolations the one true Catholic religion affords in this world and the next. Helene was touched, and more than once tears rose to her eyes and to those of Monsieur de Jobert and their voices trembled. A dance, for which her partner came to seek her, put an end to her discourse with her future directeur de conscience, but the next evening Monsieur de Jobert came to see Helene when she was alone, and after that often came again.

*Lay member of the Society of Jesus.

One day he took the countess to a Roman Catholic church, where she knelt down before the altar to which she was led. The enchanting, middle-aged Frenchman laid his hands on her head and, as she herself afterward described it, she felt something like a fresh breeze wafted into her soul. It was explained to her that this was la grace.

After that a long-frocked abbe was brought to her. She confessed to him, and he absolved her from her sins. Next day she received a box containing the Sacred Host, which was left at her house for her to

partake of. A few days later Helene learned with pleasure that she had now been admitted to the true Catholic Church and that in a few days the Pope himself would hear of her and would send her a certain document.

All that was done around her and to her at this time, all the attention devoted to her by so many clever men and expressed in such pleasant, refined ways, and the state of dove-like purity she was now in (she wore only white dresses and white ribbons all that time) gave her pleasure, but her pleasure did not cause her for a moment to forget her aim. And as it always happens in contests of cunning that a stupid person gets the better of cleverer ones, Helene- having realized that the main object of all these words and all this trouble was, after converting her to Catholicism, to obtain money from her for Jesuit institutions (as to which she received indications)- before parting with her money insisted that the various operations necessary to free her from her husband should be performed. In her view the aim of every religion was merely to preserve certain proprieties while affording satisfaction to human desires. And with this aim, in one of her talks with her Father Confessor, she insisted on an answer to the question, in how far was she bound by her marriage?

They were sitting in the twilight by a window in the drawing room. The scent of flowers came in at the window. Helene was wearing a white dress, transparent over her shoulders and bosom. The abbe, a well-fed man with a plump, clean-shaven chin, a pleasant firm mouth, and white hands meekly folded on his knees, sat close to Helene and, with a subtle smile on his lips and a peaceful look of delight at her beauty, occasionally glanced at her face as he explained his opinion on the subject. Helene with an uneasy smile looked at his curly hair and his plump, clean-shaven, blackish cheeks and every moment expected the conversation to take a fresh turn. But the abbe, though he evidently enjoyed the beauty of his companion, was absorbed in his mastery of the matter.

The course of the Father Confessor's arguments ran as follows: "Ignorant of the import of what you were undertaking, you made a vow of conjugal fidelity to a man who on his part, by entering the married state without faith in the religious significance of marriage, committed an act of sacrilege. That marriage lacked the dual significance it should have had. Yet in spite of this your vow was binding. You swerved from it. What did you commit by so acting? A venial, or a mortal, sin? A venial sin, for you acted without evil intention. If now you married again with the object of bearing

children, your sin might be forgiven. But the question is again a twofold one: firstly..."

But suddenly Helene, who was getting bored, said with one of her bewitching smiles: "But I think that having espoused the true religion I cannot be bound by what a false religion laid upon me."

The director of her conscience was astounded at having the case presented to him thus with the simplicity of Columbus' egg. He was delighted at the unexpected rapidity of his pupil's progress, but could not abandon the edifice of argument he had laboriously constructed.

"Let us understand one another, Countess," said he with a smile, and began refuting his spiritual daughter's arguments.

CHAPTER VII

Helene understood that the question was very simple and easy from the ecclesiastical point of view, and that her directors were making difficulties only because they were apprehensive as to how the matter would be regarded by the secular authorities.

So she decided that it was necessary to prepare the opinion of society. She provoked the jealousy of the elderly magnate and told him what she had told her other suitor; that is, she put the matter so that the only way for him to obtain a right over her was to marry her. The elderly magnate was at first as much taken aback by this suggestion of marriage with a woman whose husband was alive, as the younger man had been, but Helene's imperturbable conviction that it was as simple and natural as marrying a maiden had its effect on him too. Had Helene herself shown the least sign of hesitation, shame, or secrecy, her cause would certainly have been lost; but not only did she show no signs of secrecy or shame, on the contrary, with good-natured naivete she told her intimate friends (and these were all Petersburg) that both the prince and the magnate had proposed to her and that she loved both and was afraid of grieving either.

A rumor immediately spread in Petersburg, not that Helene wanted to be divorced from her husband (had such a report spread many would have opposed so illegal an intention) but simply that the

unfortunate and interesting Helene was in doubt which of the two men she should marry. The question was no longer whether this was possible, but only which was the better match and how the matter would be regarded at court. There were, it is true, some rigid individuals unable to rise to the height of such a question, who saw in the project a desecration of the sacrament of marriage, but there were not many such and they remained silent, while the majority were interested in Helene's good fortune and in the question which match would be the more advantageous. Whether it was right or wrong to remarry while
one had a husband living they did not discuss, for that question had evidently been settled by people "wiser than you or me," as they said, and to doubt the correctness of that decision would be to risk exposing one's stupidity and incapacity to live in society.

Only Marya Dmitrievna Akhrosimova, had come to Petersburg that summer to see one of her sons, allowed herself plainly to express an opinion contrary to the general one. Meeting Helene at a ball she stopped her in the middle of the room and, amid general silence, said in her gruff voice: "So wives of living men have started marrying again! Perhaps you think you have invented a novelty? You have been forestalled, my dear! It was thought of long ago. It is done in all the brothels," and with these words Marya Dmitrievna, turning up her wide sleeves with her usual threatening gesture and glancing sternly round, moved across the room.

Though people were afraid of Marya Dmitrievna she was regarded in Petersburg as a buffoon,
and so of what she had said they only
noticed, and repeated in a whisper, the one coarse word she had used, supposing the whole sting of her remark to lie in that word.

Prince Vasili, who of late very often forgot what he had said and repeated one and the same thing a hundred times, remarked to his daughter whenever he chanced to see her:

"Helene, I have a word to say to you," and he would lead her aside, drawing her hand downward. "I have heard of certain projects concerning... you know. Well my dear child, you know how your father's heart rejoices to know that you... You have suffered so much.... But, my dear child, consult only your own heart. That is all I have to say," and concealing his unvarying emotion he would press his cheek against his daughter's and move away.

Bilibin, who had not lost his reputation of an exceedingly clever man, and who was one of the disinterested friends so
brilliant a woman as Helene always has--men friends who can never change into lovers--once gave

her his view of the matter at a small
and intimate gathering.

"Listen, Bilibin," said Helene (she always called friends of that
sort by their surnames), and she touched his coat sleeve with her
white, beringed fingers. "Tell me, as you would a sister, what I ought
to do. Which of the two?"

Bilibin wrinkled up the skin over his eyebrows and pondered, with
a smile on his lips.

"You are not taking me unawares, you know," said he. "As a true
friend, I have thought and thought again about your affair. You see,
if you marry the prince"--he meant the younger man--and he crooked one
finger, "you forever lose the chance of marrying the other, and you
will displease the court besides. (You know there is some kind of
connection.) But if you marry the old count you will make his last
days happy, and as widow of the Grand... the prince would no longer be
making a mesalliance by marrying you," and Bilibin smoothed out his
forehead.

"That's a true friend!" said Helene beaming, and again touching
Bilibin's
sleeve. "But I love them, you know, and don't want to
distress either of them. I would give my life for the happiness of
them both."

Bilibin shrugged his shoulders, as much as to say that not even he
could help in that difficulty.

"Une maitresse-femme!* That's what is called putting things
squarely. She would like to be married to all three at the same time,"
thought he.

*A masterly woman.

"But tell me, how will your husband look at the matter?" Bilibin
asked, his reputation being so well established that he did not fear
to ask so naive a question. "Will he agree?"

"Oh, he loves me so!" said Helene, who for some reason imagined that
Pierre too loved her. "He will do anything for me."

Bilibin puckered his skin in preparation for something witty.

"Even divorce you?" said he.

Helene laughed.

Among those who ventured to doubt the justifiability of the proposed marriage was Helene's mother, Princess Kuragina. She was continually tormented by jealousy of her daughter,
and now that jealousy concerned
a subject near to her own heart, she could not reconcile herself to the idea. She consulted a Russian priest as to the possibility of divorce and remarriage during a husband's lifetime, and the priest told her that it was impossible, and to her delight showed her a text in the Gospel which (as it seemed to him) plainly remarriage while the husband is alive.

Armed with these arguments, which appeared to her unanswerable, she drove to her daughter's early one morning so as to find her alone.

Having listened to her mother's objections, Helene smiled blandly and ironically.

"But it says plainly: 'Whosoever shall marry her that is divorced...'" said the old princess.

"Ah, Maman, ne dites pas de betises. Vous ne comprenez rein. Dans ma position j'ai des devoirs,"* said Helene changing from Russian, in which language she always felt that her case did not sound quite clear, into French which suited it better.

*"Oh, Mamma, don't talk nonsense! You don't understand
anything.
In my position I have obligations.

"But, my dear...."

"Oh, Mamma, how is it you don't understand that the Holy Father, who has the right to grant dispensations..."

Just then the lady companion who lived with Helene came in to announce that His Highness was in the ballroom and wished to see her.

"Non, dites-lui que je ne veux pas le voir, que je suis furieuse contre lui, parce qu'il m' a manque parole."*

*"No, tell him I don't wish to see him, I am furious with him for not keeping his word to me."

"Comtesse, a tout peche misericorde,"* said a fair-haired young man with a long face and nose, as he entered the room.

*"Countess, there is mercy for every sin."

The old princess rose respectfully and curtsied. The young man who had entered took no notice of her. The princess nodded to her daughter and sidled out of the room.

"Yes, she is right," thought the old princess, all her convictions dissipated by the appearance of His Highness. "She is right, but how is
it that we in our irrecoverable youth did not know it? Yet it is so simple," she thought as she got into her carriage.

By the beginning of August Helene's affairs were clearly defined and she wrote a letter to her husband--who, as she imagined, loved her very much--informing him of her intention to marry N.N. and of her having embraced the one true faith, and asking him to carry out all the formalities necessary for a divorce, which would be explained to him by the bearer of the letter.

And so I pray God to have you, my friend, in His holy and powerful keeping--Your friend Helene.

This letter was brought to Pierre's house when he was on the field of Borodino.

CHAPTER VIII

Toward the end of the battle of Borodino, Pierre, having run down from Raevski's battery a second time, made his way through a gully to Knyazkovo with a crowd of soldiers, reached the dressing station, and seeing blood and hearing cries and groans hurried on, still entangled in the crowds of soldiers.

The
one thing he now desired with his whole soul was to get away quickly from the terrible sensations amid which he had lived that day and return to ordinary conditions of life and sleep quietly in a room in his own bed. He felt that only in the ordinary conditions of life would he be able to understand himself and all he had seen and felt. But such ordinary conditions of life were nowhere to be found.

Though shells and bullets did not whistle over the road along which he was going, still on all sides there was what there had been on the field of battle. There were still the same suffering, exhausted, and sometimes strangely indifferent faces, the same blood, the same soldiers' overcoats, the same sounds of firing which, though distant now, still aroused terror, and besides this there were the foul air and the dust.

Having gone a couple of miles along the Mozhaysk road, Pierre sat down by the roadside.

Dusk had fallen, and the roar of guns died away. Pierre lay leaning on his elbow for
a long time, gazing at the shadows that moved
past him in the darkness. He was continually imagining that a cannon ball was flying toward him with a terrific whizz, and then he shuddered and sat up. He had no idea how long he had been there. In the middle of the night three soldiers, having brought some firewood, settled down near him and began lighting a fire.

The soldiers, who threw sidelong glances at Pierre, got the fire to burn and placed an iron pot on it into which they broke some dried bread and put a little dripping. The pleasant odor of greasy viands mingled with the smell of smoke. Pierre sat up and sighed. The three soldiers were eating and talking among themselves, taking no notice of him.

"And who may you be?" one of them suddenly asked Pierre, evidently meaning what Pierre himself had in mind, namely: "If you want to eat we'll give you some food, only let us know whether you are an honest man."

"I, I..." said Pierre, feeling it necessary to minimize his social position
as much as possible so as to be nearer to the soldiers and better understood by them. "By rights I am a militia officer, but my men are not here. I came to the battle and have lost them."

"There now!" said one of the soldiers.

Another shook his head.

"Would you like a little mash?" the first soldier asked, and handed Pierre a wooden spoon after licking it clean.

Pierre sat down by the fire and began eating the mash, as they called the food in the cauldron, and he thought it more delicious than any food he had ever tasted. As he sat bending greedily over it, helping himself to large spoonfuls and chewing one after another, his was lit up by the fire and the soldiers looked at him in silence.

"Where have you to go to? Tell us!" said one of them.

"To Mozhaysk."

"You're a gentleman, aren't you?"

"Yes."

"And what's your name?"

"Peter Kirilych."

"Well then, Peter Kirilych, come along with us, we'll take you there."

In the total darkness the soldiers walked with Pierre to Mozhaysk.

By the time they got near Mozhaysk and began ascending the steep hill into the town, the cocks were already crowing. Pierre went on with the soldiers, quite forgetting that his inn was at the bottom of the hill and that he had already passed it. He would not soon have remembered this, such was his state of forgetfulness, had he not halfway up the hill stumbled upon his groom, who had been to look for him in the town and was returning to the inn. The groom recognized Pierre in the darkness by his white hat.

"Your excellency!" he said. "Why, we were beginning to despair! How is it you are on foot? And where are you going, please?"

"Oh, yes!" said Pierre.

The soldiers stopped.

"So you've found your folk?" said one of them. "Well, good-by, Peter Kirilych--isn't it?"

"Good-by, Peter Kirilych!" Pierre heard the other voices repeat.

"Good-by!" he said and turned with his groom toward the inn.

"I ought to give them something!" he thought, and felt in his pocket. "No, better not!" said another, inner voice.

There was not a room to be had at the inn, they were all occupied. Pierre went out into the yard and, covering himself up head and all, lay down in his carriage.

CHAPTER IX

Scarcely had Pierre laid his head on the pillow before he felt himself falling asleep, but suddenly, almost with the distinctness of reality, he heard the boom, boom, boom of firing, the thud of projectiles, groans and cries, and smelled blood and powder, and a feeling of horror and dread of death seized him. Filled with fright he opened his eyes and lifted his head from under his cloak. All was tranquil in the yard. Only someone's orderly passed through the gateway, splashing through the mud, and talked to the innkeeper. Above Pierre's head some pigeons, disturbed by the movement he had made in sitting up, fluttered under the dark roof of the penthouse. The whole courtyard was permeated by a strong peaceful smell of stable yards, delightful to Pierre at that moment. He could see the clear starry sky between the dark roofs of two penthouses.

"Thank God, there is no more of that!" he thought, covering up his head again. "Oh, what a terrible thing is fear, and how shamefully I yielded to it! But they... they were steady and calm all the time, to the end..." thought he.

They, in Pierre's mind, were the soldiers, those who had been at the battery, those who had given him food, and those who had prayed before the icon. They, those strange men he had not previously known, stood out clearly and sharply from everyone else.

"To be a soldier, just a soldier!" thought Pierre as he fell asleep, "to enter communal life completely, to be imbued by what makes them what they are. But how cast off all the superfluous, devilish burden of my outer man? There was a time when I could have done it. I could

have run away from my father, as I wanted to. Or I might have been sent to serve as a soldier after the duel with Dolokhov." And the memory of the dinner at the English Club when
he had challenged
Dolokhov flashed through Pierre's mind, and then he remembered his benefactor at Torzhok. And now a picture of a solemn meeting of the lodge presented itself to his mind. It was taking place at the English Club and someone near and dear to him sat at the end of the table. "Yes, that is he! It is my benefactor. But he died!" thought Pierre. "Yes, he died, and I did not know he was alive. How sorry I am that he died, and how glad I am that he is alive again!" On one side of the table sat Anatole, Dolokhov, Nesvitski, Denisov, and others like them (in his dream the category to which these men belonged was as clearly defined in his mind as the category of those he termed they), and he heard those people, Anatole and Dolokhov, shouting and singing loudly; yet through their shouting the voice of his benefactor was heard speaking all the time and the sound of his words was as weighty and uninterrupted as the booming on the battlefield, but pleasant and comforting. Pierre
did not understand what his benefactor
was saying, but he knew (the categories of thoughts were also quite distinct in his dream) that he was talking of goodness and the possibility of being what they were. And they with their simple, kind, firm faces surrounded his benefactor on all sides. But though they were kindly they did not look at Pierre and did not know him. Wishing to speak and to attract their attention, he got up, but at that moment his legs grew cold and bare.

He felt ashamed, and with one arm covered his legs from which his cloak had in fact slipped. For a moment as he was rearranging his cloak Pierre opened his eyes and saw the same penthouse roofs, posts, and yard, but now they were all bluish, lit up, and glittering with frost or dew.

"It is dawn," thought Pierre. "But that's not what I want. I want to hear and understand my benefactor's words." Again he covered himself up with his cloak, but now neither the lodge nor his benefactor was there. There were only thoughts
clearly expressed in words, thoughts
that someone was uttering or that he himself was formulating.

Afterwards when he recalled those thoughts Pierre was convinced that someone outside himself had spoken them, though the impressions of that day had evoked them. He had never, it seemed to him, been able to think and express his thoughts like that when awake.

"To endure war is the most difficult subordination of man's freedom to the law of God," the voice had said. "Simplicity is

submission to the will of God; you cannot escape from Him. And they are simple. They do not talk, but act. The spoken word is silver but the unspoken is golden. Man can be master of nothing while he fears death, but he who does not fear it possesses all. If there were no suffering, man would not know his limitations, would not know himself. The hardest thing [Pierre went on thinking, or hearing, in his dream] is to be able in your soul to unite the meaning of all. To unite all?" he asked himself. "No, not to unite. Thoughts cannot be united, but to harness all these thoughts together is what we need! Yes, one must harness them, must harness them!" he repeated to himself with inward rapture, feeling that these words and they alone expressed what he wanted to say and solved the question that tormented him.

"Yes, one must harness, it is time to harness."

"Time to harness, time to harness, your excellency! Your excellency!" some voice was repeating. "We must harness, it is time to harness...."

It was the voice of the groom, trying to wake him. The sun shone straight into Pierre's face. He glanced at the dirty innyard in the middle of which soldiers were watering their lean horses at the pump while carts were passing out of the gate. Pierre turned away with repugnance, and closing his eyes quickly fell back on the carriage seat. "No, I don't want that, I don't want to see and understand that. I want to understand what was revealing itself to me in my dream. One second more and I should have understood it all! But what am I to do? Harness, but how can I harness everything?" and Pierre felt with horror that the meaning of all he had seen and thought in the dream had been destroyed.

The groom, the coachman, and the innkeeper told Pierre that an officer had come with news that the French were already near Mozhaysk and that our men were leaving it.

Pierre got up and, having told them to harness and overtake him, went on foot through the town.

The troops were moving on, leaving about ten thousand wounded behind them. There were wounded in the yards, at the windows of the houses, and the streets were crowded with them. In the streets, around carts that were to take some of the wounded away, shouts, curses, and blows could be heard. Pierre offered the use of his carriage, which had overtaken him, to a wounded general he knew, and drove with him to Moscow. On the way Pierre was told of the death of his brother-in-law Anatole and of that of Prince Andrew.

CHAPTER X

On the thirteenth of August Pierre reached Moscow. Close to the gates of the city he was met by Count Rostopchin's adjutant.

"We have been looking for you everywhere," said the adjutant. "The count wants to see you particularly. He asks you to come to him at once on a very important matter."

Without going home, Pierre took a cab and drove to see the Moscow commander in chief.

Count Rostopchin had only that morning returned to town from his summer villa at Sokolniki. The anteroom and reception room of his house were full of officials who had been summoned or had come for orders. Vasilchikov and Platov had already seen the count and explained to him that it was impossible to defend Moscow and that it would have to be surrendered. Though this news was being concealed from the inhabitants, the officials--the heads of the various government departments--knew that Moscow would soon be in the enemy's hands, just as Count Rostopchin himself knew it, and to escape personal responsibility they had all come to the governor to ask how they were to deal with their various departments.

As Pierre was entering the reception room a courier from the army came out of Rostopchin's private room.

In answer to questions with which he was greeted, the courier made a despairing gesture with his hand and passed through the room.

While waiting in the reception room Pierre with weary eyes watched the various officials, old and young, military and civilian, who were there. They all seemed dissatisfied and uneasy. Pierre went up to a group of men, one of whom he knew. After greeting Pierre they continued their conversation.

"If they're sent out and brought back again later on it will do no harm, but as things are now one can't answer for anything."

"But you see what he writes..." said another, pointing to a

printed sheet he held in his hand.

"That's another matter. That's necessary for the people," said the first.

"What is it?" asked Pierre.

"Oh, it's a fresh broadsheet."

Pierre took it and began reading.

His Serene Highness has passed through Mozhaysk in order to join up with the troops moving toward him and has taken up a strong position where the enemy will not soon attack him. Forty eight guns with ammunition have been sent him from here, and his Serene Highness says he will defend Moscow to the last drop of blood and is even ready to fight in the streets. Do not be upset, brothers, that the law courts are closed; things have to be put in order, and we will deal with villains in our own way! When the time comes I shall want both town and peasant lads and will raise the cry a day or two beforehand, but they are not wanted yet so I hold my peace. An ax will be useful, a hunting spear not bad, but a three-pronged fork will be best of all: a Frenchman is no heavier than a sheaf of rye. Tomorrow after dinner I shall take the Iberian icon of the Mother of God to the wounded in the Catherine Hospital where we will have some water blessed. That will help them to get well quicker. I, too, am well now: one of my eyes was sore but now I am on the lookout with both.

"But military men have told me that it is impossible to fight in the town," said Pierre, "and that the position..."

"Well, of course! That's what we were saying," replied the first speaker.

"And what does he mean by 'One of my eyes was sore but now I am on the lookout with both'?" asked Pierre.

"The count had a sty," replied the adjutant smiling, "and was very much upset when I told him people had come to ask what was the matter with him. By the by, Count," he added suddenly, addressing Pierre with a smile, "we heard that you have family troubles and that the countess, your wife..."

"I have heard nothing," Pierre replied unconcernedly. "But what have

you heard?"

"Oh, well, you know people often invent things. I only say what I heard."

"But what did you hear?"

"Well, they say," continued the adjutant with the same smile, "that the countess, your wife, is preparing to go abroad. I expect it's nonsense...."

"Possibly," remarked Pierre, looking about him absent-mindedly. "And who is that?" he asked, indicating a short old man in a clean blue peasant overcoat, with a big snow-white beard and eyebrows and a ruddy face.

"He? That's a tradesman, that is to say, he's the restaurant keeper, Vereshchagin. Perhaps you have heard of that affair with the proclamation."

"Oh, so that is Vereshchagin!" said Pierre, looking at the firm, calm face of the old man and seeking any indication of his being a traitor.

"That's not he himself, that's the father of the fellow who wrote the proclamation," said the adjutant. "The young man is in prison and I expect it will go hard with him."

An old gentleman wearing a star and another official, a German wearing a cross round his neck, approached the speaker.

"It's a complicated story, you know," said the adjutant. "That proclamation appeared about two months ago. The count was informed of it. He gave orders to investigate the matter. Gabriel Ivanovich here made the inquiries. The proclamation had passed through exactly sixty-three hands. He asked one, 'From whom did you get it?' 'From so-and-so.' He went to the next one. 'From whom did you get it?' and so on till he reached Vereshchagin, a half educated tradesman, you know, 'a pet of a trader,'" said the adjutant smiling. "They asked him, 'Who gave it you?' And the point is that we knew whom he had it from. He could only have had it from the Postmaster. But evidently they had come to some understanding. He replied: 'From no one; I made it up myself.' They threatened and questioned him, but he stuck to that: 'I made it up myself.' And so it was reported to the count, who sent for the man. 'From whom did you get the proclamation?' 'I wrote it myself.' Well, you know the count," said the adjutant

cheerfully, with a smile of pride, "he flared up dreadfully--and just think of the fellow's audacity, lying, and obstinacy!"

"And the count wanted him to say it was from Klyucharev? I understand!" said Pierre.

"Not at all," rejoined the adjutant in dismay. "Klyucharev had his own sins to answer for without that and that is why he has been banished. But the point is that the count was much annoyed. 'How could you have written it yourself?' said he, and he took up the Hamburg Gazette that was lying on the table. 'Here it is! You did not write it yourself but translated it, and translated it abominably, because you don't even know French, you fool.' And what do you think? 'No,' said he, 'I have not read any papers, I made it up myself.' 'If that's so, you're a traitor and I'll have you tried, and you'll be hanged! Say from whom you had it.' 'I have seen no papers, I made it up myself.' And that was the end of it. The count had the father fetched, but the fellow stuck to it. He was sent for trial and condemned to hard labor, I believe. Now the father has come to intercede for him. But he's a good-for-nothing lad! You know that sort of tradesman's son, a dandy and lady-killer. He attended some lectures somewhere and imagines that the devil is no match for him. That's the sort of fellow he is. His father keeps a cookshop here by the Stone Bridge, and you know there was a large icon of God Almighty painted with a scepter in one hand and an orb in the other. Well, he took that icon home with him for a few days and what did he do? He found some scoundrel of a painter..."

CHAPTER XI

In the middle of this fresh tale Pierre was summoned to the commander in chief.

When he entered the private room Count Rostopchin, puckering his face, was rubbing his forehead and eyes with his hand. A short man was saying something, but when Pierre entered he stopped speaking and went out.

"Ah, how do you do, great warrior?" said Rostopchin as soon as the short man had left the room. "We have heard of your prowess. But that's not the point. Between ourselves, mon cher, do you belong to

the Masons?" he went on severely, as though there were something wrong about
it which he nevertheless intended to pardon. Pierre remained silent. "I am well informed, my friend, but I am aware that there are Masons and I hope that you are not one of those who on pretense of saving mankind wish to ruin Russia."

"Yes, I am a Mason," Pierre replied.

"There, you see, mon cher! I expect you know that Messrs. Speranski and Magnitski have been deported to their proper place. Mr. Klyucharev has been treated in the same way, and so have others who on the plea of building up the temple of Solomon have tried to destroy the temple of their fatherland. You can understand that there are reasons for this and that I could not have exiled the Postmaster had he not been a harmful person. It has now come to my knowledge that you lent him your carriage for his removal from town, and that you have even accepted papers from him for safe custody. I like you and don't wish you any harm and--as you are only half my age- I advise you, as a father would, to cease all communication with
men
of that stamp and to leave here as soon as possible."

"But what did Klyucharev do wrong, Count?" asked Pierre.

"That is for me to know, but not for you to ask," shouted Rostopchin.

"If he is accused of circulating Napoleon's proclamation it is not proved that he did so," said Pierre without looking at Rostopchin, "and Vereshchagin..."

"There we are!" Rostopchin shouted at Pierre louder than before, frowning suddenly. "Vereshchagin is a renegade and a traitor who will be punished as he deserves," said he with the vindictive heat with which people speak when recalling an insult. "But I did not summon you to discuss my actions, but to give you advice--or an order if you prefer it. I beg you to leave the town and break off all communication with such men as Klyucharev. And I will knock the nonsense out of anybody"--but probably realizing that he was shouting at Bezukhov who so far was not guilty of anything, he added, taking Pierre's hand in a friendly manner, "We are on the eve
of
a public disaster and I haven't time to be polite to everybody who has business with me. My head is sometimes in a whirl. Well, mon cher, what are you doing personally?"

"Why, nothing," answered Pierre without raising his eyes or changing

the thoughtful expression of his face.

The count frowned.

"A word of friendly advice, mon cher. Be off as soon as you can, that's all I have to tell you. Happy he who has ears to hear. Good-by, my dear fellow. Oh, by the by!" he shouted through the doorway after Pierre, "is it true that the countess has fallen into the clutches of the holy fathers of the Society of Jesus?"

Pierre did not answer and left Rostopchin's room more sullen and angry than he had ever before shown himself.

When he reached home it was already getting dark. Some eight people had come to see him that evening: the secretary of a committee, the colonel of his battalion, his steward, his major-domo, and various petitioners. They all had business with Pierre and wanted decisions from
him. Pierre did not understand and was not interested in any of these questions and only answered them in order to get rid of these people. When left alone at last he opened and read his wife's letter.

"They, the soldiers at the battery, Prince Andrew killed... that old man... Simplicity is submission to God. Suffering is necessary... the meaning of all... one must harness... my wife is getting married... One must forget and understand..." And going to his bed he threw himself on it without undressing and immediately fell asleep.

When he awoke next morning the major-domo came to inform him that a special messenger, a police officer, had come from Count Rostopchin to know whether Count Bezukhov had left or was leaving the town.

A dozen persons who had business with Pierre were awaiting him in the drawing room. Pierre dressed hurriedly and, instead of going to see them, went to the back porch and out through the gate.

From that time till the end of the destruction of Moscow
no one of
Bezukhov's household, despite all the search they made, saw Pierre again or knew where he was.

CHAPTER XII

The Rostovs remained in Moscow till the first of September, that is, till the eve of the enemy's entry into the city.

After Petya had joined Obolenski's regiment of Cossacks and left for Belaya Tserkov where that regiment was forming, the countess was seized with terror. The thought that both her sons were at the war, had both gone from under her wing, that today or tomorrow either or both of them might be killed like the three sons of one of her acquaintances, struck her that summer for the first time with cruel clearness. She tried to get Nicholas back and wished to go herself to join Petya, or to get him an appointment somewhere in Petersburg, but neither of these proved possible. Petya could not return unless his regiment did so or unless he was transferred to another regiment on active service. Nicholas was somewhere with the army and had not sent a word since
his last letter, in which he had given a detailed account of his meeting with Princess Mary. The countess did not sleep at night, or when she did fall asleep dreamed that she saw her sons lying dead. After many consultations and conversations, the count at last devised means to tranquillize her. He got Petya transferred from Obolenski's regiment to Bezukhov's, which was in training near Moscow. Though Petya would remain in the service, this transfer would give the countess the consolation of seeing at least one of her sons under her wing, and she hoped to arrange matters for her Petya so as not to let him go again, but always get him appointed to places where he could not possibly take part in a battle. As long as Nicholas alone was in danger the countess imagined that she loved her first-born more than all her other children and even reproached herself for it; but when her youngest: the scapegrace who had been bad at lessons, was always breaking things in the house and making himself a
nuisance to everybody, that snub-nosed Petya with his merry black eyes and fresh rosy cheeks where soft down was just beginning to show- when he was thrown amid those big, dreadful, cruel men who were fighting somewhere about something and apparently finding pleasure in it--then his mother thought she loved him more, much more, than all her other children. The nearer the time came for Petya to return, the more uneasy grew the countess. She began to think she would never live to see such happiness. The presence of Sonya, of her beloved Natasha, or even of her husband irritated her. "What do I want with them? I want no one but Petya," she thought.

At the end of August the Rostovs received another letter from Nicholas. He wrote from the province of Voronezh where he had been sent to procure remounts, but that letter did not set the countess at ease. Knowing that one son was out of danger she became the more anxious about Petya.

Though by the twentieth of August nearly all the Rostovs' acquaintances had left Moscow, and though everybody tried to persuade the countess to get away as quickly as possible, she would not bear of leaving before her treasure, her adored Petya, returned. On the twenty-eighth of August he arrived. The passionate tenderness with which his mother received him did not please the sixteen-year-old officer. Though she concealed from him her intention of keeping him under her wing, Petya guessed her designs, and instinctively fearing that he might give way to emotion when with her--might "become womanish" as he termed it to himself--he treated her coldly, avoided her, and during his stay in Moscow attached himself exclusively to Natasha for whom he had always had a particularly brotherly tenderness, almost lover-like.

Owing to the count's customary carelessness nothing was ready for their departure by the twenty-eighth of August and the carts that were to come from their Ryazan and Moscow estates to remove their household belongings did not arrive till the thirtieth.

From the twenty-eighth till the thirty-first all Moscow was in a bustle and commotion. Every day thousands of men wounded at Borodino were brought in by the Dorogomilov gate and taken to various parts of Moscow, and thousands of carts conveyed the inhabitants and their possessions out by the other gates. In spite of Rostopchin's broadsheets, or because of them or independently of them, the strangest and most contradictory rumors were current in the town. Some said that no one was to be allowed to leave the city, others on the contrary said that all the icons had been taken out of the churches and everybody was to be ordered to leave. Some said there had been another battle after Borodino at which the French had been routed, while others on the contrary reported that the Russian army bad been destroyed. Some talked about the Moscow militia which, preceded by the clergy, would go to the Three Hills; others whispered that Augustin had been forbidden to leave, that traitors had been seized, that the peasants were rioting and robbing people on their way from Moscow, and so on. But all this was only talk; in reality (though the Council of Fili, at which it was decided to abandon Moscow, had not yet been held) both those who went away and those who remained behind felt, though they did not show it, that Moscow would certainly be abandoned, and that they ought to get away as quickly as possible and save their belongings. It was felt that everything would suddenly break up and change, but up to the first of September nothing had done so. As a criminal who is being led to execution knows that he must die immediately, but yet looks about him and straightens the cap that is

awry on his head, so Moscow involuntarily continued its wonted life, though it knew that the time of its destruction was near when the conditions of life to which its people were accustomed to submit would be completely upset.

During the three days preceding the occupation of Moscow the whole Rostov family was absorbed in various activities. The head of the family, Count Ilya Rostov, continually drove about the city collecting the current rumors from all sides and gave superficial and hasty orders at home about the preparations for their departure.

The countess watched the things being packed, was dissatisfied with everything, was constantly in pursuit of Petya who was always running away from her, and was jealous of Natasha with whom he spent all his time. Sonya alone directed the practical side of matters by getting things packed. But of late Sonya had been particularly sad and silent. Nicholas' letter in which he mentioned Princess Mary had elicited, in her presence, joyous comments from the countess, who saw an intervention of Providence in this meeting of the princess and Nicholas.

"I was never pleased at Bolkonski's engagement to Natasha," said the countess, "but I always wanted Nicholas to marry the princess, and had a presentiment that it would happen. What a good thing it would be!"

Sonya felt that this was true: that the only possibility of retrieving the Rostovs' affairs was by Nicholas marrying a rich woman, and that the princess was a good match. It was very bitter for her. But despite her grief, or perhaps just because of it, she took on herself all the difficult work of directing the storing and packing of their things and was busy for whole days. The count and countess turned to her when they had any orders to give. Petya and Natasha on the contrary, far from helping their parents, were generally a nuisance and a hindrance to everyone. Almost all day long the house resounded with their running feet, their cries, and their spontaneous laughter. They laughed and were gay not because there was any reason to laugh, but because gaiety and mirth were in their hearts and so everything that happened was a cause for gaiety and laughter to them. Petya was in high spirits because having left home a boy he had returned (as everybody told him) a fine young man, because he was at home, because he had left Belaya Tserkov where there was no hope of soon taking part in a battle and had come to Moscow where there was to be fighting in a few days, and chiefly because Natasha, whose lead he always followed, was in high spirits. Natasha was gay because she had been sad too long and now nothing reminded her

of the cause of her sadness, and because she was feeling well. She was also happy because she had someone to adore her: the adoration of others was a lubricant the wheels of her machine needed to make them run freely--and Petya adored her. Above all, they were gay because there was a war near Moscow, there would be fighting at the town gates, arms were being given out, everybody was escaping--going away somewhere, and in general something extraordinary was happening, and that is always exciting, especially to the young.

CHAPTER XIII

On Saturday, the thirty-first of August, everything in the Rostovs' house seemed topsy-turvy.

All the doors were open, all the furniture was being carried out or moved about, and the mirrors and pictures had been taken down. There were trunks in the rooms, and hay, wrapping paper, and ropes were scattered about. The peasants and house serfs carrying out the things were treading heavily on the parquet floors. The yard was crowded with peasant carts, some loaded high and already corded up, others still empty.

The voices and footsteps of the many servants and of the peasants who had come with the carts resounded as they shouted to one another in the yard and in the house. The count bad been out since morning. The countess had a headache brought on by all the noise and turmoil and was lying down in the new sitting room with a vinegar compress on her head. Petya was not at home, he had gone to visit a friend with whom he meant to obtain a transfer from the militia to the active army. Sonya was in the ballroom looking after the packing of the glass and china. Natasha was

sitting on the floor of her dismantled room with dresses, ribbons, and scarves strewn all about her, gazing fixedly at the floor and holding in her hands the old ball dress (already out of fashion) which she had worn at her first Petersburg ball.

Natasha was ashamed of doing nothing when everyone else was so busy, and several times that morning had tried to set to work, but her heart was not in it, and she could not and did not know how to do anything except with all her heart and all her might. For a while she had stood beside Sonya while the china was being packed and tried to help, but soon gave it up and went to her room to pack her own things. At first she found it amusing to give away dresses and ribbons to the

maids, but when that was done and what was left had still to be packed, she found it dull.

"Dunyasha, you pack! You will, won't you, dear?" And when Dunyasha willingly promised to do it all for her, Natasha sat down on the floor, took her old ball dress, and fell into a reverie quite unrelated to what ought to have occupied her thoughts now. She was roused from her reverie by the talk of the maids in the next room (which was theirs) and by the sound of their hurried footsteps going to the back porch. Natasha got up and looked out of the window. An enormously long row of carts full of wounded men had stopped in the street.

The housekeeper, the old nurse, the cooks, coachmen, maids, footmen, postilions, and scullions stood at the gate, staring at the wounded.

Natasha, throwing a clean pocket handkerchief over her hair and holding an end of it in each hand, went out into the street.

The former housekeeper, old Mavra Kuzminichna, had stepped out of the crowd by the gate, gone up to a cart with a hood constructed of bast mats, and was speaking to a pale young officer who lay inside. Natasha moved a few steps forward and stopped shyly, still holding her handkerchief, and listened to what the housekeeper was saying.

"Then you have nobody in Moscow?" she was saying. "You would be more comfortable somewhere in a house... in ours, for instance... the family are leaving."

"I don't know if it would be allowed," replied the officer in a weak voice. "Here is our commanding officer... ask him," and he pointed to a stout major who was walking back along the street past the row of carts.

Natasha glanced with frightened eyes at the face of the wounded officer and at once went to meet the major.

"May the wounded men stay in our house?" she asked.

The major raised his hand to his cap with a smile.

"Which one do you want, Ma'am'selle?" said he, screwing up his eyes and smiling.

Natasha quietly repeated her question, and her face and whole manner were so serious, though she was still holding the ends of her

handkerchief, that the major ceased smiling and after some reflection-
as if considering in how far the thing was possible--replied in the
affirmative.

"Oh yes, why not? They may," he said.

With a slight inclination of her head, Natasha stepped
back
quickly to Mavra Kuzminichna, who stood talking compassionately to the
officer.

"They may. He says they may!" whispered Natasha.

The cart in which the officer lay was turned into the Rostovs' yard,
and dozens of carts with wounded men began at the invitation of the
townsfolk to turn into the yards and to draw up at the entrances of
the houses in Povarskaya Street. Natasha was evidently pleased to be
dealing with new people outside the ordinary routine of her life.
She and Mavra Kuzminichna tried to get as many of the wounded as
possible into their yard.

"Your Papa must be told, though," said Mavra Kuzminichna.

"Never mind, never mind, what does it matter? For one day we can
move into the drawing room. They can have all our half of the house."

"There now, young lady, you do take things into your head! Even if
we put them into the wing, the men's room, or the nurse's room, we
must ask permission."

"Well, I'll ask."

Natasha ran into the house and went on tiptoe through
the
half-open door into the sitting room, where there was a smell of
vinegar and Hoffman's drops.

"Are you asleep, Mamma?"

"Oh, what sleep-?" said the countess, waking up just as she was
dropping into a doze.

"Mamma darling!" said Natasha, kneeling by her mother and bringing
her face close to her mother's, "I am sorry, forgive me, I'll never do
it again; I woke you up! Mavra Kuzminichna has sent me: they have
brought some wounded here--officers. Will you let them come? They have
nowhere to go. I knew you'd let them come!" she said quickly all in
one breath.

"What officers? Whom have they brought? I don't understand anything about it," said the countess.

Natasha laughed, and the countess too smiled slightly.

"I knew you'd give permission... so I'll tell them," and, having kissed her mother, Natasha got up and went to the door.

In the hall she met her father, who had returned with bad news.

"We've stayed too long!" said the count with involuntary vexation. "The Club is closed and the police are leaving."

"Papa, is it all right--I've invited some of the wounded into the house?" said Natasha.

"Of course it is," he answered absently. "That's not the point. I beg you not to indulge in trifles now, but to help to pack, and tomorrow we must go, go, go!...."

And the count gave a similar order to the major-domo and the servants.

At dinner Petya having returned home told them the news he had heard. He said the people had been getting arms in the Kremlin, and that though Rostopchin's broadsheet had said that he would sound a call two or three days in advance, the order had certainly already been given for everyone to go armed to the Three Hills tomorrow, and that there would be a big battle there.

The countess looked with timid horror at her son's eager, excited face as he said this. She realized that if she said a word about his not going to the battle (she knew he enjoyed the thought of the impending engagement) he would say something about men, honor, and the fatherland--something senseless, masculine, and obstinate which there would be no contradicting, and her plans would be spoiled; and so, hoping to arrange to leave before then and take Petya with her as their protector and defender, she did not answer him, but after dinner called the count aside and implored him with tears to take her away quickly, that very night if possible. With a woman's involuntary loving cunning she, who till then had not shown any alarm, said that she would die of fright if they did not leave that very night. Without any pretense she was now afraid of everything.

CHAPTER XIV

Madame Schoss, who had been out to visit her daughter, increased the countess' fears still more by telling what she had seen at a spirit dealer's in Myasnitski Street. When returning by that street she had been unable to pass because of a drunken crowd rioting in front of the shop. She had taken a cab and driven home by a side street and the cabman had told her that the people were breaking
open the barrels
at the drink store, having received orders to do so.

After dinner the whole Rostov household set to work with enthusiastic haste packing their belongings and preparing for their departure. The old count, suddenly setting to work, kept passing from the yard to the house and back again, shouting confused instructions to the hurrying people, and flurrying them still more. Petya directed things in the yard. Sonya, owing to the count's contradictory orders, lost her head and did not know what to do. The servants ran noisily about the house and yard, shouting and disputing. Natasha, with the ardor characteristic of all she did suddenly set to work too. At first her intervention in the business of packing was received skeptically. Everybody expected some prank from her and did not wish to obey her; but she resolutely and passionately demanded obedience, grew angry and nearly cried because they did not heed her, and at last succeeded in making them believe her. Her first exploit,
which cost her immense effort and established her
authority, was the packing of the carpets. The count had valuable Gobelin tapestries and Persian carpets in the house. When Natasha set to work two cases were standing open in the ballroom, one almost full up with crockery, the other with carpets. There was also much china standing on the tables, and still more was being brought in from the storeroom. A third case was needed and servants had gone to fetch it.

"Sonya, wait a bit--we'll pack everything into these," said Natasha.

"You can't, Miss, we have tried to," said the butler's assistant.

"No, wait a minute, please."

And Natasha began rapidly taking out of the case dishes and plates wrapped in paper.

"The dishes must go in here among the carpets," said she.

"Why, it's a mercy if we can get the carpets alone into three cases," said the butler's assistant.

"Oh, wait, please!" And Natasha began rapidly and deftly sorting out the things. "These aren't needed," said she, putting aside some plates of Kiev ware. "These--yes, these must go among the carpets," she said, referring to the Saxony china dishes.

"Don't, Natasha! Leave it alone! We'll get it all packed," urged Sonya reproachfully.

"What a young lady she is!" remarked the major-domo.

But Natasha would not give in. She turned everything out and began quickly repacking, deciding that the inferior Russian carpets and unnecessary crockery should not be taken at all. When everything had been taken out of the cases, they recommenced packing, and it turned out that when the cheaper things not worth taking had nearly all been rejected, the valuable ones really did all go into the two cases. Only the lid of the case containing the carpets would not shut down. A few more things might have been taken out, but Natasha insisted on having her own way. She packed, repacked, pressed, made the butler's assistant and Petya--whom she had drawn into the business of packing--press on the lid, and made desperate efforts herself.

"That's enough, Natasha," said Sonya. "I see you were right, but just take out the top one."

"I won't!" cried Natasha, with one hand bolding back the hair that hung over her perspiring face, while with the other she pressed down the carpets. "Now press, Petya! Press, Vasilich, press hard!" she cried.

The carpets yielded and the lid closed; Natasha, clapping her hands, screamed with delight and tears fell from her eyes. But this only lasted a moment. She at once set to work afresh and they now trusted her completely. The count was not angry even when they told him that Natasha had countermanded an order of his, and the servants now came to her to ask whether a cart was sufficiently loaded, and whether it might be corded up. Thanks to Natasha's directions the work now went on expeditiously, unnecessary things were left, and the most valuable packed as compactly as possible.

But hard as they all worked till quite late that night, they could

not get everything packed. The countess had fallen asleep and the count, having put off their departure till next morning, went to bed.

Sonya and Natasha slept in the sitting room without undressing.

That night another wounded man was driven down the Povarskaya, and Mavra Kuzminichna, who was standing at the gate, had him brought into the Rostovs' yard. Mavra Kuzminichna concluded that he was a very important man. He was being conveyed in a caleche with a raised hood, and was quite covered by an apron. On the box beside the driver sat a venerable old attendant. A doctor and two soldiers followed the carriage in a cart.

"Please come in here. The masters are going away and the whole house will be empty," said the old woman to the old attendant.

"Well, perhaps," said he with a sigh. "We don't expect to get him home alive! We have a house of our own in Moscow, but it's a long way from here, and there's nobody living in it."

"Do us the honor to come in, there's plenty of everything in the master's house. Come in," said Mavra Kuzminichna. "Is he very ill?" she asked.

The attendant made a hopeless gesture.

"We don't expect to get him home! We must ask the doctor."

And the old servant got down from the box and went up to the cart.

"All right!" said the doctor.

The old servant returned to the caleche, looked into it, shook his head disconsolately, told the driver to turn into the yard, and stopped beside Mavra Kuzminichna.

"O, Lord Jesus Christ!" she murmured.

She invited them to take the wounded man into the house.

"The masters won't object..." she said.

But they had to avoid carrying the man upstairs, and so they took him into the wing and put him in the room that had been Madame Schoss'.

This wounded man was Prince Andrew Bolkonski.

CHAPTER XV

Moscow's last day had come. It was a clear bright autumn day, a Sunday. The church bells everywhere were ringing for service, just as usual on Sundays. Nobody seemed yet to realize what awaited the city.

Only two things indicated the social condition of Moscow--the rabble, that is the poor people, and the price of commodities. An enormous crowd of factory hands, house serfs, and peasants, with whom some officials, seminarists, and gentry were mingled, had gone early that morning to the Three Hills. Having waited there for Rostopchin who did not turn up, they became convinced that Moscow would be surrendered, and then dispersed all about the town to the public houses and cookshops. Prices too that day indicated the state of affairs. The price of weapons, of gold, of carts and horses, kept rising, but the value of paper money and city articles kept falling, so that by midday there were instances of carters removing valuable goods, such as cloth, and receiving in payment a half of what they carted, while peasant horses were fetching five hundred rubles each, and furniture, mirrors, and bronzes were being given away for nothing.

In the Rostovs' staid old-fashioned house the dissolution of former conditions of life was but little noticeable. As to the serfs the only indication was that three out of their huge retinue disappeared during the night, but nothing was stolen; and as to the value of their possessions, the thirty peasant carts that had come in from their estates and which many people envied proved to be extremely valuable and they were offered enormous sums of money for them. Not only were huge sums offered for the horses and carts, but on the previous evening and early in the morning of the first of September, orderlies and servants sent by wounded officers came to the Rostovs' and wounded men dragged themselves there from the Rostovs' and from neighboring houses where they were accommodated, entreating the servants to try to get them a lift out of Moscow. The major-domo to whom these entreaties were addressed, though he was sorry for the wounded, resolutely refused, saying that he dare not even mention the matter to the count. Pity these wounded men as one might, it was evident that if they were

given one cart there would be no reason to
refuse another, or all the carts and one's own carriages as well.
Thirty carts could not save all the wounded and in the general
catastrophe one could not disregard oneself and one's own family. So
thought the major-domo on his master's behalf.

On waking up that morning Count Ilya Rostov left his bedroom softly,
so as not to wake the countess who had fallen asleep only toward
morning, and came out to the porch in his lilac silk dressing gown. In
the yard stood the carts ready corded. The carriages were at the front
porch. The major-domo stood at the porch talking to an elderly orderly
and to a pale young officer with a bandaged arm. On seeing the count
the major-domo made a significant and stern gesture to them both to go
away.

"Well, Vasilich, is everything ready?" asked the count, and stroking
his bald head he looked good-naturedly at the officer and the
orderly and nodded to them. (He liked to see new faces.)

"We can harness at once,
your excellency."

"Well, that's right. As soon as the countess wakes we'll be off, God
willing! What is it, gentlemen?" he added, turning to the officer.
"Are you staying in my house?"

The officer came nearer and suddenly his face flushed crimson.

"Count, be so good as to allow me... for God's sake, to get into
some corner of one of your carts! I have nothing here with me.... I
shall be all right on a loaded cart..."

Before the officer had finished speaking the orderly made the same
request on behalf of his master.

"Oh, yes, yes, yes!" said the count hastily. "I shall be very
pleased, very pleased. Vasilich, you'll see to it. Just unload one
or two carts. Well, what of it... do what's necessary..." said the
count, muttering some indefinite order.

But at the same moment an expression of warm gratitude on the
officer's face had already sealed the order. The count looked around
him. In the yard, at the gates, at the window of the wings, wounded
officers and their orderlies were to
be seen. They were all looking at
the count and moving toward the porch.

"Please step into the gallery, your excellency," said the

major-domo. "What are your orders about the pictures?"

The count went into the house with him, repeating his order not to refuse the wounded who asked for a lift.

"Well, never mind, some of the things can be unloaded," he added in a soft, confidential voice, as though afraid of being overheard.

At nine o'clock the countess woke up, and Matrena Timofeevna, who had been her lady's maid before her marriage and now performed a sort of chief gendarme's duty for her, came to say that Madame Schoss was much offended and the young ladies' summer dresses could not be left behind. On inquiry, the countess learned that Madame Schoss was offended because her trunk had been taken down from its cart, and all the loads were being uncorded and the luggage taken out of the carts to make room for wounded men whom the count in the simplicity of his heart had ordered that
they should take with them.
The countess sent for her husband.

"What is this, my dear? I hear that the luggage is being unloaded."

"You know, love, I wanted to tell you... Countess dear... an officer came to me to ask for a few carts for the wounded. After all, ours are things that can be bought but think what being left behind means to them!... Really now, in our own yard--we asked them in ourselves and there are officers among them.... You know, I think, my dear... let them be taken... where's the hurry?"

The count spoke timidly, as he always did when talking of money matters. The countess was accustomed to this tone as a precursor of news of something detrimental to the children's interests, such as the building of a new gallery or conservatory, the inauguration of a private theater or an orchestra. She was accustomed always to oppose anything announced in that timid tone and considered it her duty to do so.

She assumed her dolefully submissive manner and said to her husband: "Listen
to me, Count, you have managed matters so that we are getting nothing for the house, and now you wish to throw away all our- all the children's property! You said yourself that we have a hundred thousand rubles' worth of things in the house. I don't consent, my dear, I don't! Do as you please! It's the government's business to look after the wounded; they know that. Look at the Lopukhins opposite, they cleared out everything two days ago. That's what other people do. It's only we who are such fools. If you have no pity on me, have some for the children."

Flourishing his arms in despair the count left the room without replying.

"Papa, what are you doing that for?" asked Natasha, who had followed him into her mother's room.

"Nothing! What business is it of yours?" muttered the count angrily.

"But I heard," said Natasha. "Why does Mamma object?"

"What business is it of yours?" cried the count.

Natasha stepped up to the window and pondered.

"Papa! Here's Berg coming to see us," said she, looking out of the window.

CHAPTER XVI

Berg, the Rostovs' son-in-law, was already a colonel wearing the orders of Vladimir and Anna, and he still filled the quiet and agreeable post of assistant to the head of the staff of the assistant commander of the first division of the Second Army.

On the first of September he had come to Moscow from the army.

He had nothing to do in Moscow, but he had noticed that everyone in the army was asking for leave to visit Moscow and had something to do there. So he considered it necessary to ask for leave of absence for family and domestic reasons.

Berg drove up to his father-in-law's house in his spruce little trap with a pair of sleek roans, exactly like those of a certain prince. He looked attentively at the carts in the yard and while going up to the porch took out a clean pocket handkerchief and tied a knot in it.

From the anteroom Berg ran with smooth though impatient steps into the drawing room, where he embraced the count, kissed the hands of Natasha and Sonya, and hastened to inquire after "Mamma's" health.

"Health, at a time like this?" said the count. "Come, tell us the news! Is the army retreating or will there be another battle?"

"God Almighty alone can decide the fate of our fatherland, Papa," said Berg. "The army is burning with a spirit of heroism and the leaders, so to say, have now assembled in council. No one knows what is coming. But in general I can tell you, Papa, that such a heroic spirit, the truly antique valor of the Russian army, which they--which it" (he corrected himself) "has shown or displayed in the battle of the twenty-sixth--there are no words worthy to do it justice! I tell you, Papa" (he smote himself on the breast as a general he had heard speaking had done, but Berg did it a trifle late for he should have struck his breast at the words "Russian army"), "I tell you frankly that we, the commanders, far from having to urge the men on or anything of that kind, could hardly restrain
those... those... yes,
those exploits of antique valor," he went on rapidly. "General Barclay de Tolly risked his life everywhere at the head of the troops, I can assure you. Our corps was stationed on a hillside. You can imagine!"

And Berg related all that he remembered of the various tales he had heard those days. Natasha watched him with an intent gaze that confused him, as if she were trying to find in his face the answer to some question.

"Altogether such heroism as was displayed by the Russian warriors cannot be imagined or adequately praised!" said Berg, glancing round at Natasha, and as if anxious to conciliate her, replying to her intent look with a smile. "'Russia is not in Moscow, she lives in the hearts of her sons!' Isn't it so, Papa?" said he.

Just then the countess came in from the sitting room with a weary and dissatisfied expression. Berg hurriedly jumped up, kissed her hand, asked about her health, and, swaying his head from side to side to express sympathy,
remained standing beside her.

"Yes, Mamma, I tell you sincerely that these are hard and sad times for every Russian. But why are you so anxious? You have still time to get away...."

"I can't think what the servants are about," said the countess, turning to her husband. "I have just been told that nothing is ready yet. Somebody after all must see to things. One misses Mitenka at such times. There won't be any end to it."

The count was about to say something, but evidently restrained himself. He got up from his chair and went to the door.

At that moment Berg drew out his handkerchief as if to blow his nose and, seeing the knot in it, pondered, shaking his head sadly and significantly.

"And I have a great favor to ask of you, Papa," said he.

"Hm..." said the count, and stopped.

"I was driving past Yusupov's house just now," said Berg with a laugh, "when the steward, a man I know, ran out and asked me whether I wouldn't buy something. I went in out of curiosity, you know, and there
is a small chiffonier and a dressing table. You know how dear Vera wanted a chiffonier like that and how we had a dispute about it." (At the mention of the chiffonier and dressing table Berg involuntarily changed his tone to one of pleasure at his admirable domestic arrangements.) "And it's such a beauty! It pulls out and has a secret English drawer, you know! And dear Vera has long wanted one. I wish to give her a surprise, you see. I saw so many of those peasant carts in your yard. Please let me have one, I will pay the man well, and..."

The count frowned and coughed.

"Ask the countess, I don't give orders."

"If it's inconvenient, please don't," said Berg. "Only I so wanted it, for dear Vera's sake."

"Oh, go to the devil, all of you! To the devil, the devil, the devil..." cried the old count. "My head's in a whirl!"

And he left the room. The countess began to cry.

"Yes, Mamma! Yes, these are very hard times!" said Berg.

Natasha left the room with her father and, as if finding
it
difficult to reach some decision, first followed him and then ran downstairs.

Petya was in the porch, engaged in giving out weapons to the servants who were to leave Moscow. The loaded carts were still standing in the yard. Two of them had been uncorded and a wounded officer was climbing into one of them helped by an orderly.

"Do you know what it's about?" Petya asked Natasha.

She understood that he meant what were their parents quarreling about. She did not answer.

"It's because Papa wanted to give up all the carts to the wounded," said Petya. "Vasilich told me. I consider..."

"I consider," Natasha suddenly almost shouted, turning her angry face to Petya, "I consider it so horrid, so abominable, so... I don't know what. Are we despicable Germans?"

Her throat quivered with convulsive sobs and, afraid of weakening and letting the force of her anger run to waste, she turned and rushed headlong up the stairs.

Berg was sitting beside the countess consoling her with the respectful
attention of a relative. The count, pipe in hand, was pacing up and down the room, when Natasha, her face distorted by anger, burst in like a tempest and approached her mother with rapid steps.

"It's horrid! It's abominable!" she screamed. "You can't possibly have ordered it!"

Berg and the countess looked at her, perplexed and frightened. The count stood still at the window and listened.

"Mamma, it's impossible: see what is going on in the yard!" she cried. "They will be left!..."

"What's the matter with you? Who are 'they'? What do you want?"

"Why, the wounded! It's impossible, Mamma. It's monstrous!... No, Mamma darling, it's not the thing. Please forgive me, darling.... Mamma, what does it matter what we take away? Only look what is going on in the yard... Mamma!... It's impossible!"

The count stood by the window and listened without turning round. Suddenly he sniffed and put his face closer to the window.

The countess glanced at her daughter, saw her face full of shame for her
mother, saw her agitation, and understood why her husband did not turn to look at her now, and she glanced round quite disconcerted.

"Oh, do as you like! Am I hindering anyone?" she said, not surrendering at once.

"Mamma, darling, forgive me!"

But the countess pushed her daughter away and went up to her husband.

"My dear, you order what is right.... You know I don't understand about it," said she, dropping her eyes shamefacedly.

"The eggs... the eggs are teaching the hen," muttered the count through tears of joy, and he embraced his wife who was glad to hide her look of shame on his breast.

"Papa! Mamma! May I see to it? May I?..." asked Natasha. "We will still take all the most necessary things."

The count nodded affirmatively, and Natasha, at the rapid pace at which she used to run when playing at tag, ran through the ballroom to the anteroom and downstairs into the yard.

The servants gathered round Natasha, but could not believe the strange order she brought them until
the count himself, in his
wife's name, confirmed the order to give up all the carts to the wounded and take the trunks to the storerooms. When they understood that order the servants set to work at this new task with pleasure and zeal. It no longer seemed strange to them but on the contrary it seemed the only thing that could be done, just as a quarter of an hour before it had not seemed strange to anyone that the wounded should be left behind and the goods carted away but that had seemed the only thing to do.

The whole household, as if to atone for not having done it sooner, set eagerly to work at the new task of placing the wounded in the carts. The wounded dragged themselves out of their rooms and stood with pale but happy faces round the carts. The news that carts were to be had spread to the neighboring houses, from which wounded men began to come into the Rostovs' yard. Many of the wounded asked them not to unload the carts but only to let them sit on the top of the things. But
the work of unloading, once started, could not be
arrested. It seemed not to matter whether all or only half the things were left behind. Cases full of china, bronzes, pictures, and mirrors that had been so carefully packed the night before now lay about the yard, and still they went on searching for and finding possibilities of unloading this or that and letting the wounded have another and yet another cart.

"We can take four more men," said the steward. "They can have my trap, or else what is to become of them?"

"Let them have my wardrobe cart," said the countess. "Dunyasha can go with me in the carriage."

They unloaded the wardrobe cart and sent it to take wounded men from a house two doors off. The whole household, servants included, was bright and animated. Natasha was in a state of rapturous excitement such as she had not known for a long time.

"What could we fasten this onto?" asked the servants, trying to fix a trunk on the narrow footboard behind a carriage. "We must keep at
least one cart."

"What's in it?" asked Natasha.

"The count's books."

"Leave it, Vasilich will put it away. It's not wanted."

The phaeton was full of people and there was a doubt as to where Count Peter could sit.

"On the box. You'll sit on the box, won't you, Petya?" cried Natasha.

Sonya too was busy all this time, but the aim of her efforts was quite different from Natasha's. She was putting away the things that had to be left behind and making a list of them as the countess wished, and she tried to get as much taken away with them as possible.

CHAPTER XVII

Before two o'clock in the afternoon the Rostovs' four carriages, packed full and with the horses harnessed, stood at the front door. One by one the carts with the wounded had moved out of the yard.

The caleche in which Prince Andrew was being taken attracted Sonya's attention as it passed the front porch. With the help of a maid she was arranging a seat for the countess in the huge high coach that stood at the entrance.

"Whose
caleche is that?" she inquired, leaning out of the carriage
window.

"Why, didn't you know, Miss?" replied the maid. "The wounded prince:
he spent the night in our house and is going with us."

"But who is it? What's his name?"

"It's our intended that was--Prince Bolkonski himself! They say he
is dying," replied the maid with a sigh.

Sonya jumped out of the coach and ran to the countess. The countess,
tired out and already dressed in shawl and bonnet for her journey, was
pacing up and down the drawing room, waiting for the household to
assemble for the usual silent prayer with closed doors before
starting. Natasha was not in the room.

"Mamma," said Sonya, "Prince Andrew is here, mortally wounded. He is
going with us."

The countess opened her eyes in dismay and, seizing Sonya's arm,
glanced around.

"Natasha?" she murmured.

At that moment this news had only one significance for both of them.
They knew their Natasha, and alarm as to what would happen if she
heard this
news stifled all sympathy for the man they both liked.

"Natasha does not know yet, but he is going with us," said Sonya.

"You say he is dying?"

Sonya nodded.

The countess put her arms around Sonya and began to cry.

"The ways of God are past finding out!" she thought, feeling that
the Almighty Hand, hitherto unseen, was becoming manifest in all
that was now taking place.

"Well, Mamma? Everything is ready. What's the matter?" asked
Natasha, as with animated face she ran into the room.

"Nothing," answered the countess. "If everything is ready let us

start."

And the countess bent over her reticule to hide her agitated face.
Sonya embraced Natasha and kissed her.

Natasha looked at her inquiringly.

"What is it? What has happened?"

"Nothing... No..."

"Is it something very bad for me? What is it?" persisted Natasha
with her quick intuition.

Sonya sighed and made no reply. The count, Petya, Madame Schoss,
Mavra Kuzminichna, and Vasilich came into the drawing room and, having
closed
the doors, they all sat down and remained for some moments
silently seated without looking at one another.

The count was the first to rise, and with a loud sigh crossed
himself before the icon. All the others did the same. Then the count
embraced Mavra Kuzminichna and Vasilich, who were to remain in Moscow,
and while they caught at his hand and kissed his shoulder he patted
their backs lightly with some vaguely affectionate and comforting
words. The countess went into the oratory and there Sonya found her on
her knees before the icons that had been left here and there hanging
on the wall. (The most precious ones, with which some family tradition
was connected, were being taken with them.)

In the porch and in the yard the men whom Petya had armed with
swords and daggers, with trousers tucked inside their high boots and
with belts and girdles tightened, were taking leave of those remaining
behind.

As is always the case at a departure, much had been forgotten or put
in the wrong place,
and for a long time two menservants stood one on
each side of the open door and the carriage steps waiting to help
the countess in, while maids rushed with cushions and bundles from the
house to the carriages, the caleche, the phaeton, and back again.

"They always will forget everything!" said the countess. "Don't
you know I can't sit like that?"

And Dunyasha, with clenched teeth, without replying but with an
aggrieved look on her face, hastily got into the coach to rearrange
the seat.

"Oh, those servants!" said the count, swaying his head.

Efim, the old coachman, who was the only one the countess trusted to drive her, sat perched up high on the box and did not so much as glance round at what was going on behind him. From thirty years' experience he knew it would be some time yet before the order, "Be off, in God's name!" would be given him: and he knew that even when it was said he would be stopped once or twice more while they sent back to fetch something that had been forgotten, and even after that he would again be stopped and the countess herself would lean out of the window and beg him for the love of heaven to drive carefully down the hill. He knew all this and therefore waited calmly for what would happen, with more patience than the horses, especially the near one, the chestnut Falcon, who was pawing the ground and champing his bit. At last all were seated, the carriage steps were folded and pulled up, the door was shut, somebody was sent for a traveling case, and the countess leaned out and said what she had to say. Then Efim deliberately doffed his hat and began crossing himself. The postilion and all the other servants did the same. "Off, in God's name!" said Efim, putting on his hat. "Start!" The postilion started the horses, the off pole horse tugged at his collar, the high springs creaked, and the body of the coach swayed. The footman sprang onto the box of the moving coach which jolted as it passed out of the yard onto the uneven roadway; the other vehicles jolted in their turn, and the procession of carriages moved up the street. In the carriages, the caleche, and the phaeton, all crossed themselves as they passed the church opposite the house. Those who were to remain in Moscow walked on either side of the vehicles seeing the travelers off.

Rarely had Natasha experienced so joyful a feeling as now, sitting in the carriage beside the countess and gazing at the slowly receding walls of forsaken, agitated Moscow. Occasionally she leaned out of the carriage window and looked back and then forward at the long train of wounded in front of them. Almost at the head of the line she could see the raised hood of Prince Andrew's caleche. She did not know who was in it, but each time she looked at the procession her eyes sought that caleche. She knew it was right in front.

In Kudrino, from the Nikitski, Presnya, and Podnovinsk Streets came several other trains of vehicles similar to the Rostovs', and as they passed along the Sadovaya Street the carriages and carts formed two rows abreast.

As they were going round the Sukharev water tower Natasha, who was

inquisitively and alertly scrutinizing the people driving or walking past, suddenly cried out in joyful surprise:

"Dear me! Mamma, Sonya, look, it's he!"

"Who? Who?"

"Look! Yes, on my word, it's Bezukhov!" said Natasha, putting her head out of the carriage and staring at a tall, stout man in a coachman's long coat, who from his manner of walking and moving was evidently a gentleman in disguise, and who was passing under the arch of the Sukharev tower accompanied by a small, sallow-faced, beardless old man in a frieze coat.

"Yes, it really is Bezukhov in a coachman's coat, with a queer-looking old boy. Really," said Natasha, "look, look!"

"No, it's not he. How can you talk such nonsense?"

"Mamma," screamed Natasha, "I'll stake my head it's he! I assure you! Stop, stop!" she cried to the coachman.

But the coachman could not stop, for from the Meshchanski Street came
more carts and carriages, and the Rostovs were being shouted at to move on and not block the way.

In fact, however, though now much farther off than before, the Rostovs all saw Pierre--or someone extraordinarily like him--in a coachman's coat, going down the street with head bent and a serious face beside a small, beardless old man who looked like a footman. That old man noticed a face thrust out of the carriage window gazing at them, and respectfully touching Pierre's elbow said something to him and pointed to the carriage. Pierre, evidently engrossed in thought, could not at first understand him. At length when he had understood and looked in the direction the old man indicated, he recognized Natasha, and following his first impulse stepped instantly and rapidly toward the coach. But having taken a dozen steps he seemed to remember something and stopped.

Natasha's face, leaning out of the window, beamed with quizzical kindliness.

"Peter Kirilovich, come here! We have recognized
you! This is
wonderful!" she cried, holding out her hand to him. "What are you doing? Why are you like this?"

Pierre took her outstretched hand and kissed it awkwardly as he walked along beside her while the coach still moved on.

"What is the matter, Count?" asked the countess in a surprised and commiserating tone.

"What? What? Why? Don't ask me," said Pierre, and looked round at Natasha whose radiant, happy expression--of which he was conscious without looking at her--filled him with enchantment.

"Are you remaining in Moscow, then?"

Pierre hesitated.

"In Moscow?" he said in a questioning tone. "Yes, in Moscow. Goodby!"

"Ah, if only I were a man? I'd certainly stay with you. How splendid!" said Natasha. "Mamma, if you'll let me, I'll stay!"

Pierre glanced absently at Natasha and was about to say something, but the countess interrupted him.

"You were at the battle, we heard."

"Yes, I was," Pierre answered. "There will be another battle tomorrow..." he began, but Natasha
interrupted him.

"But what is the matter with you, Count? You are not like yourself...."

"Oh, don't ask me, don't ask me! I don't know myself. Tomorrow... But no! Good-by, good-by!" he muttered. "It's an awful time!" and dropping behind the carriage he stepped onto the pavement.

Natasha continued to lean out of the window for a long time, beaming at him with her kindly, slightly quizzical, happy smile.

CHAPTER XVIII

For the last two days, ever since leaving home, Pierre had been living in the empty house of his deceased benefactor, Bazdeev. This is

how it happened.

When he woke up on the morning after his return to Moscow and his interview with Count Rostopchin, he could not for some time make out where he was and what was expected of him. When he was informed that among others awaiting him in his reception room there was a Frenchman who had brought a letter from his wife, the Countess Helene, he felt suddenly overcome by that sense of confusion and hopelessness to which he
was apt to succumb. He felt that everything
was now at an end, all was in confusion and crumbling to pieces, that nobody was right or wrong, the future held nothing, and there was no escape from this position. Smiling unnaturally and muttering to himself, he first sat down on the sofa in an attitude of despair, then rose, went to the door of the reception room and peeped through the crack, returned flourishing his arms, and took up a book. His major-domo came in a second time to say that the Frenchman who had brought the letter from the countess was very anxious to see him if only for a minute, and that someone from Bazdeev's widow had called to ask Pierre to take charge of her husband's books, as she herself was leaving for the country.

"Oh, yes, in a minute; wait... or no! No, of course... go and say I will come directly," Pierre replied to the major-domo.

But as soon as the man had left the room Pierre took up his hat which was lying on the table and went out of his study by the
other
door. There was no one in the passage. He went along the whole length of this passage to the stairs and, frowning and rubbing his forehead with both hands, went down as far as the first landing. The hall porter was standing at the front door. From the landing where Pierre stood there was a second staircase leading to the back entrance. He went down that staircase and out into the yard. No one had seen him. But there were some carriages waiting, and as soon as Pierre stepped out of the gate the coachmen and the yard porter noticed him and raised their caps to him. When he felt he was being looked at he behaved like an ostrich which hides its head in a bush in order not to be seen: he hung his head and quickening his pace went down the street.

Of all the affairs awaiting Pierre that day the sorting of Joseph Bazdeev's books and papers appeared to him the most necessary.

He hired the first cab he met and told the driver to go to the Patriarch's Ponds, where the widow Bazdeev's house

was.

Continually turning round to look at the rows of loaded carts that were making their way from all sides out of Moscow, and balancing his bulky body so as not to slip out of the ramshackle old vehicle, Pierre, experiencing the joyful feeling of a boy escaping from school, began to talk to his driver.

The man told him that arms were being distributed today at the Kremlin and that tomorrow everyone would be sent out beyond the Three Hills gates and a great battle would be fought there.

Having reached the Patriarch's Ponds Pierre found the Bazdeevs' house, where he had not been for a long time past. He went up to the gate. Gerasim, that sallow beardless old man Pierre had seen at Torzhok five years before with Joseph Bazdeev, came out in answer to his knock.

"At home?" asked Pierre.

"Owing to the present state of things Sophia Danilovna has gone to the Torzhok estate with the children, your excellency."

"I will come in all the same, I have to look through the books," said Pierre.

"Be so good as to step in. Makar Alexeevich, the brother of my late master--may the kingdom of heaven be his--has remained here, but he is in a weak state as you know," said the old servant.

Pierre knew that Makar Alexeevich was Joseph Bazdeev's half-insane brother and a hard drinker.

"Yes, yes, I know. Let us go in..." said Pierre and entered the house.

A tall, bald-headed old man with a red nose, wearing a dressing gown and with galoshes on his bare feet, stood in the anteroom. On seeing Pierre he muttered something angrily and went away along the passage.

"He was a very clever man but has now grown quite feeble, as your honor sees," said Gerasim. "Will you step into the study?" Pierre nodded. "As it was sealed up so it has remained, but Sophia Danilovna gave orders that if anyone should come from you they were to have the books."

Pierre went into that gloomy study which he had entered with such

trepidation in his benefactor's lifetime. The room, dusty and untouched since the death of Joseph Bazdeev was now even gloomier.

Gerasim opened one of the shutters and left the room on tiptoe. Pierre went round the study, approached the cupboard in which the manuscripts were kept, and took out what had once been one of the most important, the holy of holies of the order. This was the authentic Scotch Acts with Bazdeev's notes and explanations. He sat down at the dusty writing table, and, having laid the manuscripts before him, opened them out, closed them, finally pushed them away, and resting his head on his hand sank into meditation.

Gerasim looked cautiously into the study several times and saw Pierre always sitting in the same attitude.

More than two hours passed and Gerasim took the liberty of making a slight noise at the door to attract his attention, but Pierre did not hear him.

"Is the cabman to be discharged, your honor?"

"Oh yes!" said Pierre, rousing himself and rising hurriedly. "Look here," he added, taking Gerasim by a button of his coat and looking down at the old man with moist, shining, and ecstatic eyes, "I say, do you know that there is going to be a battle tomorrow?"

"We heard so," replied the man.

"I beg you not to tell anyone who I am, and to do what I ask you."

"Yes, your excellency," replied Gerasim. "Will you have something to eat?"

"No, but I want something else. I want peasant clothes and a pistol," said Pierre, unexpectedly blushing.

"Yes, your excellency," said Gerasim after thinking for a moment.

All the rest of that day Pierre spent alone in his benefactor's study, and Gerasim heard him pacing restlessly from one corner to another and talking to himself. And he spent the night on a bed made up for him there.

Gerasim, being a servant who in his time had seen many strange things, accepted Pierre's taking up his residence in the house without surprise, and seemed pleased to have someone to wait on. That same

evening--without even asking himself what they were wanted for--he procured a coachman's coat and
cap for Pierre, and promised to get him
the pistol next day. Makar Alexeevich came twice that evening shuffling along in his galoshes as far as the door and stopped and looked ingratiatingly at Pierre. But as soon as Pierre turned toward him he wrapped his dressing gown around him with a shamefaced and angry look and hurried away. It was when Pierre (wearing the coachman's coat which Gerasim had procured for him and had disinfected by steam) was on his way with the old man to buy the pistol at the Sukharev market that he met the Rostovs.

CHAPTER XIX

Kutuzov's order to retreat through Moscow to the Ryazan road was issued at night on the first of September.

The first troops started at once, and during the night they
marched slowly and steadily without hurry. At daybreak, however, those nearing the town at the Dorogomilov bridge saw ahead of them masses of soldiers crowding and hurrying across the bridge, ascending on the opposite side and blocking the streets and alleys, while
endless
masses of troops were bearing down on them from behind, and an unreasoning hurry and alarm overcame them. They all rushed forward to the bridge, onto it, and to the fords and the boats. Kutuzov himself had driven round by side streets to the other side of Moscow.

By ten o'clock in the morning of the second of September, only the rear guard remained in the Dorogomilov suburb, where they had ample room. The main army was on the other side of Moscow or beyond it.

At that very time, at ten in the morning of the second of September, Napoleon was standing among his troops on the Poklonny Hill looking at the panorama spread out before him. From the twenty-sixth of August to the second of September, that is from the battle of Borodino to the entry of the French into Moscow, during the whole of that agitating, memorable week, there had been the extraordinary autumn weather that always comes as a surprise, when the sun hangs low and gives more heat than in spring, when everything shines
so brightly in the rare clear
atmosphere that the eyes smart, when the lungs are strengthened and refreshed by inhaling the aromatic autumn air, when even the nights

are warm, and when in those dark warm nights, golden stars startle and delight us continually by falling from the sky.

At ten in the morning of the second of September this weather still held.

The brightness of the morning was magical. Moscow seen from the Poklonny Hill lay spaciously spread out with her river, her gardens, and her churches, and she seemed to be living her usual life, her cupolas glittering like stars in the sunlight.

The view of the strange city with its peculiar architecture, such as he had never seen before, filled Napoleon with the rather envious and uneasy curiosity men feel when they see an alien form of life that has no knowledge of them. This city was evidently living with the full force of its own life. By the indefinite signs which, even at a distance, distinguish a living body from a dead one, Napoleon from the Poklonny Hill perceived the throb of life in the town and felt, as it were, the breathing of that great and beautiful body.

Every Russian looking at Moscow feels her to be a mother; every foreigner who sees her, even if ignorant of her significance as the mother city, must feel her feminine character, and Napoleon felt it.

"Cette ville asiatique aux innombrables eglises, Moscou la sainte. La voila done enfin, cette fameuse ville! Il etait temps,"* said he, and dismounting he ordered a plan of Moscow to be spread out before him, and summoned Lelorgne d'Ideville, the interpreter.

*"That Asiatic city of the innumerable churches, holy Moscow! Here it is then at last, that famous city. It was high time."

"A town captured by the enemy is like a maid who has lost her honor," thought he (he had said so to Tuchkov at Smolensk). From that point of view he gazed at the Oriental beauty he had not seen before. It seemed strange to him that his long-felt wish, which had seemed unattainable, had at last been realized. In the clear morning light he gazed now at the city and now at the plan, considering its details, and the assurance of possessing it agitated and awed him.

"But could it be otherwise?" he thought. "Here is this capital at my feet. Where is Alexander now, and of what is he thinking? A strange, beautiful, and majestic city; and a strange and majestic moment! In what light must I appear to them!" thought he, thinking of his troops.

"Here she is, the reward for all those fainthearted men," he reflected, glancing at those near him and at the troops who were approaching and forming up. "One word from me, one movement of my hand, and that ancient capital of the Tsars would perish. But my clemency is always ready to descend upon the vanquished. I must be magnanimous and truly great. But no, it can't be true that I am in Moscow," he suddenly thought. "Yet here she is lying at my feet, with her golden domes and crosses scintillating and twinkling in the sunshine. But I shall spare her. On the ancient monuments of barbarism and despotism I will inscribe great words of justice and mercy.... It is just this which Alexander will feel most painfully, I know him." (It seemed to Napoleon that the chief import of what was taking place lay in the personal struggle between himself and Alexander.) "From the height of the Kremlin--yes, there is the Kremlin, yes--I will give them just laws; I will teach them the meaning of true civilization, I will make generations of boyars remember their conqueror with love. I will tell the deputation that I did not, and do not, desire war, that I have waged war only against the false policy of their court; that I love and respect Alexander and that in Moscow I will accept terms of peace worthy of myself and of my people. I do not wish to utilize the fortunes of war to humiliate an honored monarch. 'Boyars,' I will say to them, 'I do not desire war, I desire the peace and welfare of all my subjects.' However, I know their presence will inspire me, and I shall speak to them as I always do: clearly, impressively, and majestically. But can it be true that I am in Moscow? Yes, there she lies."

"Qu'on m'amene les boyars,"* said he to his suite.

*"Bring the boyars to me."

A general with a brilliant suite galloped off at once to fetch the boyars.

Two hours passed. Napoleon had lunched and was again standing in the same place on the Poklonny Hill awaiting the deputation. His speech to the boyars had already taken definite shape in his imagination. That speech was full of dignity and greatness as Napoleon understood it.

He was himself carried away by the tone of magnanimity he intended to adopt toward Moscow. In his imagination he appointed days for assemblies at the palace of the Tsars, at which Russian notables and his own would mingle. He mentally appointed a governor, one who would win the hearts of the people. Having learned that there were

many charitable institutions in Moscow he
mentally decided that he
would shower favors on them all. He thought that, as in Africa he had to put on a burnoose and sit in a mosque, so in Moscow he must be beneficent like the Tsars. And in order finally to touch the hearts of the Russians--and being like all Frenchmen unable to imagine anything sentimental without a reference to ma chere, ma tendre, ma pauvre mere* --he decided that he would place an inscription on all these establishments in large letters: "This establishment is dedicated to my dear mother." Or no, it should be simply: Maison de ma Mere,*[2] he concluded. "But am I really in Moscow? Yes, here it lies before me, but why is the deputation from the city so long in appearing?" he wondered.

*"My dear, my tender, my poor mother."

*[2] "House of my Mother."

Meanwhile an agitated consultation was being carried on in whispers among his generals and marshals at the rear of his suite. Those sent to fetch the deputation had returned with the news that Moscow was empty,
that everyone had left it. The faces of those who
were not conferring together were pale and perturbed. They were not alarmed by the fact that Moscow had been abandoned by its inhabitants (grave as that fact seemed), but by the question how to tell the Emperor--without putting him in the terrible position of appearing ridiculous--that he had been awaiting the boyars so long in vain: that there were drunken mobs left in Moscow but no one else. Some said that a deputation of some sort must be scraped together, others disputed that opinion and maintained that the Emperor should first be carefully and skillfully prepared, and then told the truth.

"He will have to be told, all the same," said some gentlemen of the suite. "But, gentlemen..."

The position was the more awkward because the Emperor, meditating upon his magnanimous plans, was pacing patiently up and down before the outspread map, occasionally glancing along the road to Moscow from under his lifted hand with a bright and proud
smile.

"But it's impossible..." declared the gentlemen of the suite, shrugging their shoulders but not venturing to utter the implied word-
le ridicule...

At last the Emperor, tired of futile expectation, his actor's instinct suggesting to him that the sublime moment having been too long drawn out was beginning to lose its sublimity, gave a sign with his hand. A single report of a signaling gun followed, and the troops, who were already spread out on different sides of Moscow, moved into the city through Tver, Kaluga, and Dorogomilov gates. Faster and faster, vying with one another, they moved at the double or at a trot, vanishing amid the clouds of dust they raised and making the air ring with a deafening roar of mingling shouts.

Drawn on by the movement of his troops Napoleon rode with them as far as the Dorogomilov gate, but there again stopped and, dismounting from his horse, paced for a long time by the Kammer-Kollezski rampart, awaiting the deputation.

CHAPTER XX

Meanwhile Moscow was empty. There were still people in it, perhaps a fiftieth part of its former inhabitants had remained, but it was empty. It was empty in the sense that a dying queenless hive is empty.

In a queenless hive no life is left though to a superficial glance it seems as much alive as other hives.

The bees circle round a queenless hive in the hot beams of the midday sun as gaily as around the living hives; from a distance it smells of honey like the others, and bees fly in and out in the same way. But one has only to observe that hive to realize that there is no longer any life in it. The bees do not fly in the same way, the smell and the sound that meet the beekeeper are not the same. To the beekeeper's tap on the wall of the sick hive, instead of the former instant unanimous humming of tens of thousands of bees with their abdomens threateningly compressed, and producing by the rapid vibration of their wings an aerial living sound, the only reply is a disconnected buzzing from different parts of the deserted hive. From the alighting board, instead of the former spirituous fragrant smell of honey and venom, and the warm whiffs of crowded life, comes an odor of emptiness and decay mingling with the smell of honey. There are no longer sentinels sounding the alarm with their abdomens raised, and ready to die in defense of the hive. There is no longer the measured quiet sound of throbbing activity, like the sound of boiling water,

but diverse discordant sounds of disorder. In and out of the hive long black robber bees smeared with honey fly timidly and shiftily. They do not sting, but crawl away from danger. Formerly only bees laden with honey flew into the hive, and they flew out empty; now they fly out laden. The beekeeper opens the lower part of the hive and peers in. Instead of black, glossy bees--tamed by toil, clinging to one another's legs and drawing out the wax, with a ceaseless hum of labor- that used to hang in long clusters down to the floor of the hive, drowsy shriveled bees crawl about separately in various directions on the floor and walls of the hive. Instead of a neatly glued floor, swept by the bees with the fanning of their wings, there is a floor littered with bits of wax, excrement, dying bees scarcely moving their legs, and dead ones that have not been cleared away.

The beekeeper opens the upper part of the hive and examines the super. Instead of serried rows of bees sealing up every gap in the combs and keeping the brood warm, he sees the skillful complex structures of the combs, but no longer in their former state of purity. All is neglected and foul. Black robber bees are swiftly and stealthily prowling about the combs, and the short home bees, shriveled and listless as if they were old, creep slowly about without trying to hinder the robbers, having lost all motive and all sense of life. Drones, bumblebees, wasps, and butterflies knock awkwardly against the walls of the hive in their flight. Here and there among the cells containing dead brood and honey an angry buzzing can sometimes be heard. Here and there a couple of bees, by force of habit and custom cleaning out the brood cells, with efforts beyond their strength laboriously drag away a dead bee or bumblebee without knowing why they do it. In another corner two old bees are languidly fighting, or cleaning themselves, or feeding one another, without themselves knowing whether they do it with friendly or hostile intent. In a third place a crowd of bees, crushing one another, attack some victim and fight and smother it, and the victim, enfeebled or killed, drops from above slowly and lightly as a feather, among the heap of corpses. The keeper opens the two center partitions to examine the brood cells. In place of the former close dark circles formed by thousands of bees sitting back to back and guarding the high mystery of generation, he sees hundreds of dull, listless, and sleepy shells of bees. They have almost all died unawares, sitting in the sanctuary they had guarded and which is now no more. They reek of decay and death. Only a few of them still move, rise, and feebly fly to settle on the enemy's hand, lacking the spirit to die stinging him; the rest are dead and fall as lightly as fish scales. The beekeeper closes the hive, chalks a mark on it, and when he has time tears out its contents and burns it clean.

So in the same way Moscow was empty when Napoleon, weary, uneasy, and morose, paced up and down in front of the Kammer-Kollezski rampart, awaiting what to his mind was a necessary, if but formal, observance of the proprieties--a deputation.

In various corners of Moscow there still remained a few people aimlessly moving about, following their old habits and hardly aware of what they were doing.

When with due circumspection Napoleon was informed that Moscow was empty, he looked angrily at his informant, turned away, and silently continued to walk to and fro.

"My carriage!" he said.

He took his seat beside the aide-de-camp on duty and drove into the suburb. "Moscow deserted!" he said to himself. "What an incredible event!"

He did not drive into the town, but put up at an inn in the Dorogomilov suburb.

The coup de theatre had not come off.

CHAPTER XXI

The Russian troops were passing through Moscow from two o'clock at night till two in the afternoon and bore away with them the wounded and the last of the inhabitants who were leaving.

The greatest crush during the movement of the troops took place at the Stone, Moskva, and Yauza bridges.

While the troops, dividing into two parts when passing around the Kremlin, were thronging the Moskva and the Stone bridges, a great many soldiers, taking advantage of the stoppage and congestion, turned back from the bridges and slipped stealthily and silently past the church of Vasili the Beatified and under the Borovitski gate, back up the hill to the Red Square where some instinct told them they could easily take things not belonging to them. Crowds

of the kind seen at cheap
sales filled all the passages and alleys of the Bazaar. But there were no dealers with voices of ingratiating affability inviting customers to enter; there were no hawkers, nor the usual motley crowd of female purchasers--but only soldiers, in uniforms and overcoats though without muskets, entering the Bazaar empty-handed and silently making their way out through its passages with bundles. Tradesmen and their assistants (of whom there were but few) moved about among the soldiers quite bewildered. They unlocked their shops and locked them up again, and themselves carried goods away with the help their assistants. On the square in front of the Bazaar were drummers beating the muster call. But the roll of the drums did not make the looting soldiers run in the direction of the drum as formerly, but made them, on the contrary, run farther away. Among the soldiers in the shops and passages some men were to be seen in gray coats, with closely shaven heads. Two officers,
one with a scarf over his
uniform and mounted on a lean, dark-gray horse, the other in an overcoat and on foot, stood at the corner of Ilyinka Street, talking. A third officer galloped up to them.

"The general orders them all to be driven out at once, without fail. This is outrageous! Half the men have dispersed."

"Where are you off to?... Where?..." he shouted to three infantrymen without muskets who, holding up the skirts of their overcoats, were slipping past him into the Bazaar passage. "Stop, you rascals!"

"But how are you going to stop them?" replied another officer. "There is no getting them together. The army should push on before the rest bolt, that's all!"

"How can one push on? They are stuck there, wedged on the bridge, and don't move. Shouldn't we put a cordon round to prevent the rest from running away?"

"Come, go in there and drive them out!" shouted the senior officer.

The officer in the scarf dismounted, called up a drummer, and went with him into the arcade.
Some soldiers started running away in a
group. A shopkeeper with red pimples on his cheeks near the nose, and a calm, persistent, calculating expression on his plump face, hurriedly and ostentatiously approached the officer, swinging his arms.

"Your honor!" said he. "Be so good as to protect us! We won't grudge trifles, you are welcome to anything--we shall be delighted!

Pray!... I'll fetch a piece of cloth at once for such an honorable gentleman, or even two pieces with pleasure. For we feel how it is; but what's all this--sheer robbery! If you please, could not guards be placed if only to let us close the shop...."

Several shopkeepers crowded round the officer.

"Eh, what twaddle!" said one of them, a thin, stern-looking man. "When one's head is gone one doesn't weep for one's hair! Take what any of you like!" And flourishing his arm energetically he turned sideways to the officer.

"It's all very well for you, Ivan Sidorych, to talk," said the first tradesman angrily. "Please step
inside, your honor!"

"Talk indeed!" cried the thin one. "In my three shops here I have a hundred thousand rubles' worth of goods. Can they be saved when the army has gone? Eh, what people! 'Against God's might our hands can't fight.'"

"Come inside, your honor!" repeated the tradesman, bowing.

The officer stood perplexed and his face showed indecision.

"It's not my business!" he exclaimed, and strode on quickly down one of the passages.

From one open shop came the sound of blows and vituperation, and just as the officer came up to it a man in a gray coat with a shaven head was flung out violently.

This man, bent double, rushed past the tradesman and the officer. The officer pounced on the soldiers who were in the shops, but at that moment fearful screams reached them from the huge crowd on the Moskva bridge and the officer ran out into the square.

"What is it? What is it?" he asked, but his comrade was already galloping off past Vasili the Beatified in the direction from which the
screams came.

The officer mounted his horse and rode after him. When he reached the bridge he saw two unlimbered guns, the infantry crossing the bridge, several overturned carts, and frightened and laughing faces among the troops. Beside the cannon a cart was standing to which two horses were harnessed. Four borzois with collars were pressing close to the wheels. The cart was loaded high, and at the very top, beside a

child's chair with its legs in the air, sat a peasant woman uttering piercing and desperate shrieks. He was told by his fellow officers that the screams of the crowd and the shrieks of the woman were due to the fact that General Ermolov, coming up to the crowd and learning that soldiers were dispersing among the shops while crowds of civilians blocked the bridge, had ordered two guns to be unlimbered and made a show of firing at the bridge. The crowd, crushing one another, upsetting carts, and shouting and squeezing desperately, had cleared off the bridge and the troops were now moving forward.

CHAPTER XXII

Meanwhile, the city itself was deserted. There was hardly anyone in the streets. The gates and shops were all closed, only here and there round the taverns solitary shouts or drunken songs could be heard. Nobody drove through the streets and footsteps were rarely heard. The Povarskaya was quite still and deserted. The huge courtyard of the Rostovs' house was littered with wisps of hay and with dung from the horses, and not a soul was to be seen there. In the great drawing room of the house, which had been left with all it contained, were two people. They were the yard porter Ignat, and the page boy Mishka, Vasilich's grandson who had stayed in Moscow with his grandfather. Mishka had opened the clavichord and was strumming on it with one finger. The yard porter, his arms akimbo, stood smiling with satisfaction before the large mirror.

"Isn't it fine, eh, Uncle Ignat?" said the boy, suddenly beginning to strike the keyboard with both hands.

"Only fancy!" answered Ignat, surprised at the broadening grin on his face in the mirror.

"Impudence! Impudence!" they heard behind them the voice of Mavra Kuzminichna who had entered silently. "How he's grinning, the fat mug! Is that what you're here for? Nothing's cleared away down there and Vasilich is worn out. Just you wait a bit!"

Ignat left off smiling, adjusted his belt, and went out of the room with meekly downcast eyes.

"Aunt, I did it gently," said the boy.

"I'll give you something gently, you monkey you!" cried Mavra Kuzminichna, raising her arm threateningly. "Go and get the samovar to boil for your grandfather."

Mavra Kuzminichna flicked the dust off the clavichord and closed it, and with a deep sigh left the drawing room and locked its main door.

Going out into the yard she paused to consider where she should go next--to drink tea in the servants' wing with Vasilich, or into the storeroom to put away what still lay about.

She heard the sound of quick footsteps
in the quiet street.
Someone stopped at the gate, and the latch rattled as someone tried to open it. Mavra Kuzminichna went to the gate.

"Who do you want?"

"The count--Count Ilya Andreevich Rostov."

"And who are you?"

"An officer, I have to see him," came the reply in a pleasant, well-bred Russian voice.

Mavra Kuzminichna opened the gate and an officer of eighteen, with the round face of a Rostov, entered the yard.

"They have gone away, sir. Went away yesterday at vespertime," said Mavra Kuzminichna cordially.

The young officer standing in the gateway, as if hesitating whether to enter or not, clicked his tongue.

"Ah, how annoying!" he muttered. "I should have come yesterday.... Ah, what a pity."

Meanwhile, Mavra Kuzminichna was attentively and sympathetically examining the familiar Rostov features of the young man's face, his tattered coat and trodden-down boots.

"What did you want to see the count for?" she asked.

"Oh well... it can't be helped!" said he in a tone of vexation
and
placed his hand on the gate as if to leave.

He again paused in indecision.

"You see," he suddenly said, "I am a kinsman of the count's and he has been very kind to me. As you see" (he glanced with an amused air and good-natured smile at his coat and boots) "my things are worn out and I have no money, so I was going to ask the count..."

Mavra Kuzminichna did not let him finish.

"Just wait a minute, sir. One little moment," said she.

And as soon as the officer let go of the gate handle she turned and, hurrying away on her old legs, went through the back yard to the servants' quarters.

While Mavra Kuzminichna was running to her room the officer walked about the yard gazing at his worn-out boots with lowered head and a faint smile on his lips. "What a pity I've missed Uncle! What a nice old woman! Where has she run off to? And how am I to find the nearest way to overtake my regiment, which must by now be getting near the Rogozhski gate?" thought he. Just then Mavra Kuzminichna appeared
from behind the corner of the house with a frightened yet resolute look, carrying a rolled-up check kerchief in her hand. While still a few steps from the officer she unfolded the kerchief and took out of it a white twenty-five-ruble assignat and hastily handed it to him.

"If his excellency had been at home, as a kinsman he would of course... but as it is..."

Mavra Kuzminichna grew abashed and confused. The officer did not decline, but took the note quietly and thanked her.

"If the count had been at home..." Mavra Kuzminichna went on apologetically. "Christ be with you, sir! May God preserve you!" said she, bowing as she saw him out.

Swaying his head and smiling as if amused at himself, the officer ran almost at a trot through the deserted streets toward the Yauza bridge to overtake his regiment.

But Mavra Kuzminichna stood at the closed gate for some time with moist eyes, pensively swaying her head and feeling an unexpected flow of motherly tenderness and pity for the
unknown young officer.

CHAPTER XXIII

From an unfinished house on the Varvarka, the ground floor of which was a dramshop, came drunken shouts and songs. On benches round the tables in a dirty little room sat some ten factory hands. Tipsy and perspiring, with dim eyes and wide-open mouths, they were all laboriously singing some song or other. They were singing discordantly, arduously, and with great effort, evidently not because they wished to sing, but because they wanted to show they were drunk and on a spree. One, a tall, fair-haired lad in a clean blue coat, was standing over the others. His face with its fine straight nose would have been handsome had it not been for his thin, compressed, twitching lips and dull, gloomy, fixed eyes. Evidently possessed by some idea, he stood over those who were singing, and solemnly and jerkily flourished above their heads his white arm with the sleeve turned up to the elbow, trying unnaturally to spread out his dirty fingers. The sleeve of his coat kept slipping down and he always carefully rolled it up again with his left hand, as if it were most important that the sinewy white arm he was flourishing should be bare. In the midst of the song cries were heard, and fighting and blows in the passage and porch. The tall lad waved his arm.

"Stop it!" he exclaimed peremptorily. "There's a fight, lads!" And, still rolling up his sleeve, he went out to the porch.

The factory hands followed him. These men, who under the leadership of the tall lad were drinking in the dramshop that morning, had brought the publican some skins from the factory and for this had had drink served them. The blacksmiths from a neighboring smithy, hearing the sounds of revelry in the tavern and supposing it to have been broken into, wished to force their way in too and a fight in the porch had resulted.

The publican was fighting one of the smiths at the door, and when the workmen came out the smith, wrenching himself free from the tavern keeper, fell face downward on the pavement.

Another smith tried to enter the doorway, pressing against the publican with his chest.

The lad with the turned-up sleeve gave the smith a blow in the

face and cried wildly: "They're fighting us, lads!"

At that moment the first smith got up and, scratching his bruised face to make it bleed, shouted in a tearful voice: "Police! Murder!... They've killed a man, lads!"

"Oh, gracious me, a man beaten to death--killed!..." screamed a woman coming out of a gate close by.

A crowd gathered round the bloodstained smith.

"Haven't you robbed people enough--taking their last shirts?" said a voice addressing the publican. "What have you killed a man for, you thief?"

The tall lad, standing in the porch, turned his bleared eyes from the publican to the smith and back again as if considering whom he ought to fight now.

"Murderer!" he shouted suddenly to the publican. "Bind him, lads!"

"I daresay you would like to bind me!" shouted the publican, pushing away the
men advancing on him, and snatching his cap from his head he flung it on the ground.

As if this action had some mysterious and menacing significance, the workmen surrounding the publican paused in indecision.

"I know the law very well, mates! I'll take the matter to the captain of police. You think I won't get to him? Robbery is not permitted to anybody now a days!" shouted the publican, picking up his cap.

"Come along then! Come along then!" the publican and the tall young fellow repeated one after the other, and they moved up the street together.

The bloodstained smith went beside them. The factory hands and others followed behind, talking and shouting.

At the corner of the Moroseyka, opposite a large house with closed shutters and bearing a bootmaker's signboard, stood a score of thin, worn-out, gloomy-faced bootmakers, wearing overalls and long tattered coats.

"He should pay folks off properly," a thin workingman, with frowning brows and a straggly beard, was saying.

"But he's
sucked our blood and now he thinks he's quit of us. He's
been misleading us all the week and now that he's brought us to this
pass he's made off."

On seeing the crowd and the bloodstained man the workman ceased
speaking, and with eager curiosity all the bootmakers joined the
moving crowd.

"Where are all the folks going?"

"Why, to the police, of course!"

"I say, is it true that we have been beaten?" "And what did you
think? Look what folks are saying."

Questions and answers were heard. The publican, taking advantage
of the increased crowd, dropped behind and returned to his tavern.

The tall youth, not noticing the disappearance of his foe, waved his
bare arm and went on talking incessantly, attracting general attention
to himself. It was around him that the people chiefly crowded,
expecting answers from him to the questions that occupied all their
minds.

"He must keep order, keep the law, that's what the government is
there for. Am I not right, good Christians?" said the tall
youth, with
a scarcely perceptible smile. "He thinks there's no government! How
can one do without government? Or else there would be plenty who'd rob
us."

"Why talk nonsense?" rejoined voices in the crowd. "Will they give
up Moscow like this? They told you that for fun, and you believed
it! Aren't there plenty of troops on the march? Let him in, indeed!
That's what the government is for. You'd better listen to what
people are saying," said some of the mob pointing to the tall youth.

By the wall of China-Town a smaller group of people were gathered
round a man in a frieze coat who held a paper in his hand.

"An ukase, they are reading an ukase! Reading an ukase!" cried
voices in the crowd, and the people rushed toward the reader.

The man in the frieze coat was reading the broadsheet of August 31
When the crowd collected round him he seemed confused, but at the
demand of the tall lad who had pushed his way up to him, he began in a

rather tremulous voice to read the sheet from the beginning.

"Early
tomorrow I shall go to his Serene Highness," he read
("Sirin Highness," said the tall fellow with a triumphant smile on his lips and a frown on his brow), "to consult with him to act, and to aid the army to exterminate these scoundrels. We too will take part..." the reader went on, and then paused ("Do you see," shouted the youth victoriously, "he's going to clear up the whole affair for you...."), "in destroying them, and will send these visitors to the devil. I will come back to dinner, and we'll set to work. We will do, completely do, and undo these scoundrels."

The last words were read out in the midst of complete silence. The tall lad hung his head gloomily. It was evident that no one had understood the last part. In particular, the words "I will come back to dinner," evidently displeased both reader and audience. The people's minds were tuned to a high pitch and this was too simple and needlessly comprehensible--it was what any one of them might have said and therefore
was what an ukase emanating from the highest
authority should not say.

They all stood despondent and silent. The tall youth moved his lips and swayed from side to side.

"We should ask him... that's he himself?"... "Yes, ask him indeed!... Why not? He'll explain"... voices in the rear of the crowd were suddenly heard saying, and the general attention turned to the police superintendent's trap which drove into the square attended by two mounted dragoons.

The superintendent of police, who had that morning by Count Rostopchin's orders to burn the barges and had in connection with that matter acquired a large sum of money which was at that moment in his pocket, on seeing a crowd bearing down upon him told his coachman to stop.

"What people are these?" he shouted to the men, who were moving singly and timidly in the direction of his trap.

"What people are these?" he shouted again, receiving no answer.

"Your honor..." replied the shopman in the frieze coat, "your honor, in accord
with the proclamation of his highest excellency the count,
they desire to serve, not sparing their lives, and it is not any
kind of riot, but as his highest excellence said..."

"The count has not left, he is here, and an order will be issued concerning you," said the superintendent of police. "Go on!" he ordered his coachman.

The crowd halted, pressing around those who had heard what the superintendent had said, and looking at the departing trap.

The superintendent of police turned round at that moment with a scared look, said something to his coachman, and his horses increased their speed.

"It's a fraud, lads! Lead the way to him, himself!" shouted the tall youth. "Don't let him go, lads! Let him answer us! Keep him!" shouted different people and the people dashed in pursuit of the trap.

Following the superintendent of police and talking loudly the crowd went in the direction of the Lubyanka Street.

"There now, the gentry and merchants have gone away and left us to perish. Do they
think we're dogs?" voices in the crowd were heard
saying more and more frequently.

CHAPTER XXIV

On the evening of the first of September, after his interview with Kutuzov, Count Rostopchin had returned to Moscow mortified and offended because he had not been invited to attend the council of war, and because Kutuzov had paid no attention to his offer to take part in the defense of the city; amazed also at the novel outlook revealed to him at the camp, which treated the tranquillity of the capital and its patriotic fervor as not merely secondary but quite irrelevant and unimportant matters. Distressed, offended, and surprised by all this, Rostopchin had returned to Moscow. After supper he lay down on a sofa without undressing, and was awakened soon after midnight by a courier bringing him a letter from Kutuzov. This letter requested the count to send police officers to guide the troops through the town, as the army was retreating to the Ryazan road beyond Moscow. This was not
news to Rostopchin. He had known that Moscow
would be abandoned not merely since his interview the previous day with Kutuzov on the Poklonny Hill but ever since the battle of

Borodino, for all the generals who came to Moscow after that battle had said unanimously that it was impossible to fight another battle, and since then the government property had been removed every night, and half the inhabitants had left the city with Rostopchin's own permission. Yet all the same this information astonished and irritated the count, coming as it did in the form of a simple note with an order from Kutuzov, and received at night, breaking in on his beauty sleep.

When later on in his memoirs Count Rostopchin explained his actions at this time, he repeatedly says that he was then actuated by two important considerations: to maintain tranquillity in Moscow and expedite the departure of the inhabitants. If one accepts this twofold aim all Rostopchin's actions appear irreproachable. "Why were the holy
relics, the arms, ammunition, gunpowder, and stores of
corn not removed? Why were thousands of inhabitants deceived into believing that Moscow would not be given up--and thereby ruined?" "To presence the tranquillity of the city," explains Count Rostopchin. "Why were bundles of useless papers from the government offices, and Leppich's balloon and other articles removed?" "To leave the town empty," explains Count Rostopchin. One need only admit that public tranquillity is in danger and any action finds a justification.

All the horrors of the reign of terror were based only on solicitude for public tranquillity.

On what, then, was Count Rostopchin's fear for the tranquillity of Moscow based in 1812? What reason was there for assuming any probability of an uprising in the city? The inhabitants were leaving it and the retreating troops were filling it. Why should that cause the masses to riot?

Neither in Moscow nor anywhere in Russia did anything resembling an insurrection ever occur when
the enemy entered a town. More than
ten thousand people were still in Moscow on the first and second of September, and except for a mob in the governor's courtyard, assembled there at his bidding, nothing happened. It is obvious that there would have been even less reason to expect a disturbance among the people if after the battle of Borodino, when the surrender of Moscow became certain or at least probable, Rostopchin instead of exciting the people by distributing arms and broadsheets had taken steps to remove all the holy relics, the gunpowder, munitions, and money, and had told the population plainly that the town would be abandoned.

Rostopchin, though he had patriotic sentiments, was a sanguine and impulsive man who had always moved in the highest administrative circles and had no understanding at all of the people he supposed

himself to be guiding. Ever since the enemy's entry into Smolensk he had in imagination been playing the role of director of the popular feeling of "the heart of Russia." Not only did it seem to him (as to all administrators) that he controlled the external actions of Moscow's inhabitants, but he also thought he controlled their mental attitude by means of his broadsheets and posters, written in a coarse tone which the people despise in their own class and do not understand from those in authority. Rostopchin was so pleased with the fine role of leader of popular feeling, and had grown so used to it, that the necessity of relinquishing that role and abandoning Moscow without any heroic display took him unawares and he suddenly felt the ground slip away from under his feet, so that he positively did not know what to do. Though he knew it was coming, he did not till the last moment wholeheartedly believe that Moscow would be abandoned, and did not prepare for it. The inhabitants left against his wishes. If the government offices were removed, this was only done on the demand of officials to whom the count yielded reluctantly. He was absorbed in the role he had created for himself. As is often the case with those gifted with an ardent imagination, though he had long known that Moscow would be abandoned he knew it only with his intellect, he did not believe it in his heart and did not adapt himself mentally to this new position of affairs.

All his painstaking and energetic activity (in how far it was useful and had any effect on the people is another question) had been simply directed toward arousing in the masses his own feeling of patriotic hatred of the French.

But when events assumed their true historical character, when expressing hatred for the French in words proved insufficient, when it was not even possible to express that hatred by fighting a battle, when self-confidence was of no avail in relation to the one question before Moscow, when the whole population streamed out of Moscow as one man, abandoning their belongings and proving by that negative action all the depth of their national feeling, then the role chosen by Rostopchin suddenly appeared senseless. He unexpectedly felt himself ridiculous, weak, and alone, with no ground to stand on.

When, awakened from his sleep, he received that cold, peremptory note from Kutuzov, he felt the more irritated the more he felt himself to blame. All that he had been specially put in charge of, the state property which he should have removed, was still in Moscow and it was no longer possible to take the whole of it away.

"Who is to blame for it? Who has let things come to such a pass?" he

ruminated. "Not I, of course. I had everything ready. I had Moscow firmly in hand. And this is what they have let it come to! Villains! Traitors!" he thought, without clearly defining who the villains and traitors were, but feeling it necessary to hate those traitors whoever they might be who were to blame for the false and ridiculous position in which he found himself.

All that night Count Rostopchin issued orders, for which people came to him from all parts of
Moscow. Those about him had never seen the
count so morose and irritable.

"Your excellency, the Director of the Registrar's Department has sent for instructions... From the Consistory, from the Senate, from the University, from the Foundling Hospital, the Suffragan has sent... asking for information.... What are your orders about the Fire Brigade? From the governor of the prison... from the superintendent of the lunatic asylum..." All night long such announcements were continually being received by the count.

To all these inquiries he gave brief and angry replies indicating that orders from him were not now needed, that the whole affair, carefully prepared by him, had now been ruined by somebody, and that that somebody would have to bear the whole responsibility for all that might happen.

"Oh, tell that blockhead," he said in reply to the question from the Registrar's Department, "that he should remain to guard his documents. Now why are you asking silly questions about the Fire Brigade?
They
have horses, let them be off to Vladimir, and not leave them to the French."

"Your excellency, the superintendent of the lunatic asylum has come: what are your commands?"

"My commands? Let them go away, that's all.... And let the lunatics out into the town. When lunatics command our armies God evidently means these other madmen to be free."

In reply to an inquiry about the convicts in the prison, Count Rostopchin shouted angrily at the governor:

"Do you expect me to give you two battalions--which we have not got- for a convoy? Release them, that's all about it!"

"Your excellency, there are some political prisoners, Meshkov, Vereshchagin..."

"Vereshchagin! Hasn't he been hanged yet?" shouted Rostopchin.
"Bring him to me!"

CHAPTER XXV

Toward nine o'clock in the morning, when the troops were already moving through Moscow, nobody came to the count any more for instructions. Those who were able to get away were going of their own accord, those who remained behind decided for themselves what they must do.

The count ordered his carriage that he might drive to Sokolniki, and sat in his study with folded hands, morose, sallow, and taciturn.

In quiet and untroubled times it seems to every administrator that it is only by his efforts that the whole population under his rule is kept going, and in this consciousness of being indispensable every administrator finds the chief reward of his labor and efforts. While the sea of history remains calm the ruler-administrator in his frail bark, holding on with a boat hook to the ship of the people and himself moving, naturally imagines that his efforts move the ship he is holding on to. But as soon as a storm arises and the sea begins to heave and the ship to move, such a delusion is no longer possible. The ship moves independently with its own enormous motion, the boat hook no longer reaches the moving vessel, and suddenly the administrator, instead of appearing a ruler and a source of power, becomes an insignificant, useless, feeble man.

Rostopchin felt this, and it was this which exasperated him.

The superintendent of police, whom the crowd had stopped, went in to see him at the same time as an adjutant who informed the count that the horses were harnessed. They were both pale, and the superintendent of police, after reporting that he had executed the instructions he had received, informed the count that an immense crowd had collected in the courtyard and wished to see him.

Without saying a word Rostopchin rose and walked hastily to his light, luxurious drawing room, went to the balcony door, took hold of the handle, let it go again, and went to the window from which he

had a better view of the whole crowd. The tall lad was standing in front, flourishing his arm and saying something with a stern look. The blood stained smith stood beside him with a gloomy face. A drone of voices was audible through the closed window.

"Is my carriage ready?" asked Rostopchin, stepping back from the window.

"It
is, your excellency," replied the adjutant.

Rostopchin went again to the balcony door.

"But what do they want?" he asked the superintendent of police.

"Your excellency, they say they have got ready, according to your orders, to go against the French, and they shouted something about treachery. But it is a turbulent crowd, your excellency--I hardly managed to get away from it. Your excellency, I venture to suggest..."

"You may go. I don't need you to tell me what to do!" exclaimed Rostopchin angrily.

He stood by the balcony door looking at the crowd.

"This is what they have done with Russia! This is what they have done with me!" thought he, full of an irrepressible fury that welled up within him against the someone to whom what was happening might be attributed. As often happens with passionate people, he was mastered by anger but was still seeking an object on which to vent it. "Here is that mob, the dregs of the people," he thought as he gazed at the crowd: "this rabble
they have roused by their folly! They want a
victim," he thought as he looked at the tall lad flourishing his arm. And this thought occurred to him just because he himself desired a victim, something on which to vent his rage.

"Is the carriage ready?" he asked again.

"Yes, your excellency. What are your orders about Vereshchagin? He is waiting at the porch," said the adjutant.

"Ah!" exclaimed Rostopchin, as if struck by an unexpected recollection.

And rapidly opening the door he went resolutely out onto the balcony. The talking instantly ceased, hats and caps were doffed, and all eyes were raised to the count.

"Good morning, lads!" said the count briskly and loudly. "Thank you for coming. I'll come out to you in a moment, but we must first settle with the villain. We must punish the villain who has caused the ruin of Moscow. Wait for me!"

And the count stepped as briskly back into the room and slammed the door behind him.

A murmur of approbation and satisfaction ran through the crowd.
"He'll settle with all the villains, you'll see! And you said the French... He'll show you what law is!" the mob were saying as if reproving one another for their lack of confidence.

A few minutes later an officer came hurriedly out of the front door, gave an order, and the dragoons formed up in line. The crowd moved eagerly from the balcony toward the porch. Rostopchin, coming out there with quick angry steps, looked hastily around as if seeking someone.

"Where is he?" he inquired. And as he spoke he saw a young man coming round the corner of the house between two dragoons. He had a long thin neck, and his head, that had been half shaved, was again covered by short hair. This young man was dressed in a threadbare blue cloth coat lined with fox fur, that had once been smart, and dirty hempen convict trousers, over which were pulled his thin, dirty, trodden-down boots. On his thin, weak legs were heavy chains which hampered his irresolute movements.

"Ah!" said Rostopchin, hurriedly turning away his eyes from the young man in the fur-lined coat and pointing to the bottom step of the porch. "Put him there."

The young man in his clattering chains stepped clumsily to the spot indicated, holding away with one finger the coat collar which chafed his neck, turned his long neck twice this way and that, sighed, and submissively folded before him his thin hands, unused to work.

For several seconds while the young man was taking his place on the step the silence continued. Only among the back rows of the people, who were all pressing toward the one spot, could sighs, groans, and the shuffling of feet be heard.

While waiting for the young man to take his place on the step Rostopchin stood frowning and rubbing his face with his hand.

"Lads!" said he, with a metallic ring in his voice. "This man, Vereshchagin, is the scoundrel by whose doing Moscow is perishing."

The young man in the fur-lined coat, stooping a little, stood in a submissive attitude, his fingers clasped before him. His emaciated young face, disfigured by the half-shaven head, hung down hopelessly. At the count's first words he raised it slowly and looked up at him as if wishing to say something or at least to meet his eye. But Rostopchin did not look at him. A vein in the young man's long thin neck swelled like a cord and went blue behind the ear, and suddenly his face flushed.

All eyes were fixed on him. He looked at the crowd, and rendered more hopeful by the expression he read on the faces there, he smiled sadly and timidly, and lowering his head shifted his feet on the step.

"He has betrayed his Tsar and his country, he had gone over to Bonaparte. He alone of all the Russians has disgraced the Russian name, he has caused Moscow to perish," said Rostopchin in a sharp, even voice, but suddenly he glanced down at Vereshchagin who continued to stand in the same submissive attitude. As if inflamed by the sight, he raised his arm and addressed the people, almost shouting:

"Deal with him as you think fit! I hand him over to you."

The crowd remained silent and only pressed closer and closer to one another. To keep one another back, to breathe in that stifling atmosphere, to be unable to stir, and to await something unknown, uncomprehended, and terrible, was becoming unbearable. Those standing in front, who had seen and heard what had taken place before them, all stood with wide open eyes and mouths, straining with all their strength, and held back the crowd that was pushing behind them.

"Beat him!... Let the traitor perish and not disgrace the Russian name!" shouted Rostopchin. "Cut him down. I command it."

Hearing not so much the words as the angry tone of Rostopchin's voice, the crowd moaned and heaved forward, but again paused.

"Count!" exclaimed the timid yet theatrical voice of Vereshchagin in the midst of the momentary silence that ensued, "Count! One God is above us both...." He lifted his head and again the thick vein in his thin neck filled with blood and the color rapidly came and went in his face.

He did not finish what he wished to say.

"Cut him down! I command it..." shouted Rostopchin, suddenly growing pale like Vereshchagin.

"Draw sabers!" cried the dragoon officer, drawing his own.

Another still stronger wave flowed through the crowd and reaching the front ranks carried it swaying to the very steps of the porch. The tall youth, with a stony look on his face, and rigid and uplifted arm, stood beside Vereshchagin.

"Saber him!" the dragoon officer almost whispered.

And one of the soldiers, his face all at once distorted with fury, struck Vereshchagin on the head with the blunt side of his saber.

"Ah!" cried Vereshchagin in meek surprise, looking round with a frightened glance as if not understanding why this was done to him. A similar moan of surprise and horror ran through the crowd. "O Lord!" exclaimed a sorrowful voice.

But after the exclamation of surprise that had escaped from Vereshchagin he uttered a plaintive cry of pain, and that cry was fatal. The barrier of human feeling, strained to the utmost, that had held the crowd in check suddenly broke. The crime had begun and must now be completed. The plaintive moan of reproach was drowned by the threatening and angry roar of the crowd. Like the seventh and last wave that shatters a ship, that last irresistible wave burst from the rear and reached the front ranks, carrying them off their feet and engulfing them all. The dragoon was about to repeat his blow. Vereshchagin with a cry of horror, covering his head with his hands, rushed toward the crowd. The tall youth, against whom he stumbled, seized his thin neck with his hands and, yelling wildly, fell with him under the feet of the pressing, struggling crowd.

Some beat and tore at Vereshchagin, others at the tall youth. And the screams of those that were being trampled on and of those who tried to rescue the tall lad only increased the fury of the crowd. It was a long time before the dragoons could extricate the bleeding youth, beaten almost to death. And for a long time, despite the feverish haste with which the mob tried to end the work that had been begun, those who were hitting, throttling, and tearing at Vereshchagin were unable to kill him, for the crowd pressed from all sides, swaying as one mass with them in the center and rendering it

impossible for them either to kill him or let him go.

"Hit him with an ax, eh!... Crushed?... Traitor, he sold Christ.... Still alive... tenacious... serves him right! Torture serves a thief right. Use the hatchet!... What--still alive?"

Only when the victim ceased to struggle and his cries changed to a long-drawn, measured death rattle did the crowd around his prostrate, bleeding corpse begin rapidly to change places. Each one came up, glanced at what had been done, and with horror, reproach, and astonishment pushed back again.

"O Lord! The people are like wild beasts! How could he be alive?" voices in the crowd could be heard saying.
"Quite a young fellow too... must have been a merchant's son. What men!... and they say he's not the right one.... How not the right one?... O Lord! And there's another has been beaten too--they say he's nearly done for.... Oh, the people... Aren't they afraid of sinning?..." said the same mob now, looking with pained distress at the dead body with its long, thin, half-severed neck and its livid face stained with blood and dust.

A painstaking police officer, considering the presence of a corpse in his excellency's courtyard unseemly, told the dragoons to take it away. Two dragoons took it by its distorted legs and dragged it along the ground. The gory, dust-stained, half-shaven head with its long neck trailed twisting along the ground. The crowd shrank back from it.

At the moment when Vereshchagin fell and the crowd closed in with savage yells and swayed about him, Rostopchin suddenly turned pale and, instead of going to the back entrance where his carriage awaited him, went with
hurried steps and bent head, not knowing where and why, along the passage leading to the rooms on the ground floor. The count's face was white and he could not control the feverish twitching of his lower jaw.

"This way, your excellency... Where are you going?... This way, please..." said a trembling, frightened voice behind him.

Count Rostopchin was unable to reply and, turning obediently, went in the direction indicated. At the back entrance stood his caleche. The distant roar of the yelling crowd was audible even there. He hastily took his seat and told the coachman to drive him to his country house in Sokolniki.

When they reached the Myasnitski Street and could no longer hear the shouts of the mob, the count began to repent. He remembered with dissatisfaction the agitation and fear he had betrayed before his subordinates. "The mob is terrible--disgusting," he said to himself in French. "They are like wolves whom nothing but flesh can appease." "Count! One God is above us both!"--Vereshchagin's words suddenly recurred to him, and a disagreeable shiver ran down his back. But this was only a momentary feeling and Count Rostopchin smiled disdainfully at himself. "I had other duties," thought he. "The people had to be appeased. Many other victims have perished and are perishing for the public good"--and he began thinking of his social duties to his family and to the city entrusted to him, and of himself--not himself as Theodore Vasilyevich Rostopchin (he fancied that Theodore Vasilyevich Rostopchin was sacrificing himself for the public good) but himself as governor, the representative of authority and of the Tsar. "Had I been simply Theodore Vasilyevich my course of action would have been quite different, but it was my duty to safeguard my life and dignity as commander in chief."

Lightly swaying on the flexible springs of his carriage and no longer hearing the terrible sounds of the crowd, Rostopchin grew physically calm and, as always happens, as soon as he became physically tranquil his mind devised reasons why he should be mentally tranquil too. The thought which tranquillized Rostopchin was not a new one. Since the world began and men have killed one another no one has ever committed such a crime against his fellow man without comforting himself with this same idea. This idea is le bien public, the hypothetical welfare of other people.

To a man not swayed by passion that welfare is never certain, but he who commits such a crime always knows just where that welfare lies. And Rostopchin now knew it.

Not only did his reason not reproach him for what he had done, but he even found cause for self-satisfaction in having so successfully contrived to avail himself of a convenient opportunity to punish a criminal and at the same time pacify the mob.

"Vereshchagin was tried and condemned to death," thought Rostopchin (though the Senate had only condemned Vereshchagin to hard labor), "he was a traitor and a spy. I could not let him go unpunished and so I have killed two birds with one stone: to appease the mob I gave them a victim and at the same time punished a miscreant."

Having reached his country house and begun to give orders about domestic arrangements, the count grew quite tranquil.

Half an hour later he was driving with his fast horses across the Sokolniki field, no longer thinking of what had occurred but considering what was to come. He was driving to the Yauza bridge where he had heard that Kutuzov was. Count Rostopchin was mentally preparing the angry and stinging reproaches he meant to address to Kutuzov for his deception. He would make that foxy old courtier feel that the responsibility for all the calamities that would follow the abandonment of the city and the ruin of Russia (as Rostopchin regarded it) would fall upon his doting old head. Planning beforehand what he would say to Kutuzov, Rostopchin turned angrily in his caleche and gazed sternly from side to side.

The Sokolniki field was deserted. Only at the end of it, in front of the almshouse and the lunatic asylum, could be seen some people in white and others like them walking singly across the field shouting and gesticulating.

One of these was running to cross the path of Count Rostopchin's carriage, and the count himself, his coachman, and his dragoons looked with vague horror and curiosity at these released lunatics and especially at the one running toward them.

Swaying from side to side on his long, thin legs in his fluttering dressing gown, this lunatic was running impetuously, his gaze fixed on Rostopchin, shouting something in a hoarse voice and making signs to him to stop. The lunatic's solemn, gloomy face was thin and yellow, with its beard growing in uneven tufts. His black, agate pupils with saffron-yellow whites moved restlessly near the lower eyelids.

"Stop! Pull up, I tell you!" he cried in a piercing voice, and again shouted something breathlessly with emphatic intonations and gestures.

Coming abreast of the caleche he ran beside it.

"Thrice have they slain me, thrice have I risen from the dead. They stoned me, crucified me... I shall rise... shall rise... shall rise. They have torn my body. The kingdom of God will be overthrown... Thrice will I overthrow it and thrice re-establish it!" he cried, raising his voice higher and higher.

Count Rostopchin suddenly grew pale as he had done when the crowd closed in on Vereshchagin. He turned away. "Go fas... faster!" he cried in a trembling voice to his coachman. The caleche flew over

the ground as fast as the horses could draw it, but for a long time Count Rostopchin still heard the insane despairing screams growing fainter in the distance, while his eyes saw nothing but the astonished, frightened, bloodstained face of "the traitor" in the fur-lined coat.

Recent as that mental picture was, Rostopchin already felt that it had cut deep into his heart and drawn blood. Even now he felt clearly that the gory trace of that recollection would not pass with time, but that the terrible memory would, on the contrary, dwell in his heart ever more cruelly and painfully to the end of his life. He seemed still to hear the sound of his own words: "Cut him down! I command it...."

"Why did I utter those words? It was by some accident I said them.... I need not have said them," he thought. "And then nothing would have happened." He saw the frightened and then infuriated face of the dragoon who dealt the blow, the look of silent, timid reproach that boy in the fur-lined coat had turned upon him. "But I did not do it for my own sake. I was bound to act that way.... The mob, the traitor... the public welfare," thought he.

Troops were still crowding at the Yauza bridge. It was hot. Kutuzov, dejected and frowning, sat on a bench by the bridge toying with his whip in the sand when a caleche dashed up noisily. A man in a general's uniform with plumes in his hat went up to Kutuzov and said something in French. It was Count Rostopchin. He told Kutuzov that he had come because Moscow, the capital, was no more and only the army remained.

"Things would have been different if your Serene Highness had not told me that you would not abandon Moscow without another battle; all this would not have happened," he said.

Kutuzov looked at Rostopchin as if, not grasping what was said to him, he was trying to read something peculiar written at that moment on the face of the man addressing him. Rostopchin grew confused and became silent. Kutuzov slightly shook his head and not taking his penetrating gaze from Rostopchin's face muttered softly:

"No! I shall not give up Moscow without a battle!"

Whether Kutuzov was thinking of something entirely different when he spoke those words, or uttered them purposely, knowing them to be meaningless, at any rate Rostopchin made no reply and hastily left him. And strange to say, the Governor of Moscow, the proud Count

Rostopchin, took up a Cossack whip and went to the bridge where he began with shouts to drive
on the carts that blocked the way.

CHAPTER XXVI

Toward four o'clock in the afternoon Murat's troops were entering Moscow. In front rode a detachment of Wurttemberg hussars and behind them rode the King of Naples himself accompanied by a numerous suite.

About the middle of the Arbat Street, near the Church of the Miraculous Icon of St. Nicholas, Murat halted to await news from the advanced detachment as to the condition in which they had found the citadel, le Kremlin.

Around Murat gathered a group of those who had remained in Moscow. They all stared in timid bewilderment at the strange, long-haired commander dressed up in feathers and gold.

"Is that their Tsar himself? He's not bad!" low voices could be heard saying.

An interpreter rode up to the group.

"Take off your cap... your caps!" These words went from one to another in the crowd. The interpreter addressed an old porter and asked if it was far to the Kremlin. The porter, listening in perplexity to the unfamiliar Polish
accent and not realizing that
the interpreter was speaking Russian, did not understand what was being said to him and slipped behind the others.

Murat approached the interpreter and told him to ask where the Russian army was. One of the Russians understood what was asked and several voices at once began answering the interpreter. A French officer, returning from the advanced detachment, rode up to Murat and reported that the gates of the citadel had been barricaded and that there was probably an ambuscade there.

"Good!" said Murat and, turning to one of the gentlemen in his suite, ordered four light guns to be moved forward to fire at the gates.

The guns emerged at a trot from the column following Murat and advanced up the Arbat. When they reached the end of the Vozdvizhenka Street they halted and drew in the Square. Several French officers superintended the placing of the guns and looked at the Kremlin through field glasses.

The bells in the Kremlin were ringing for vespers, and this sound troubled the French. They imagined it to be a call to arms. A few infantrymen ran to the Kutafyev Gate. Beams and wooden screens had been put there, and two musket shots rang out from under the gate as soon as an officer and men began to run toward it. A general who was standing by the guns shouted some words of command to the officer, and the latter ran back again with his men.

The sound of three more shots came from the gate.

One shot struck a French soldier's foot, and from behind the screens came the strange sound of a few voices shouting. Instantly as at a word of command the expression of cheerful serenity on the faces of the French general, officers, and men changed to one of determined concentrated readiness for strife and suffering. To all of them from the marshal to the least soldier, that place was not the Vozdvizhenka, Mokhavaya, or Kutafyev Street, nor the Troitsa Gate (places familiar in Moscow), but a new battlefield which would probably prove sanguinary.

And all made ready for that battle. The cries from the gates ceased. The guns were advanced, the artillerymen blew the ash off their linstocks, and an officer gave the word "Fire!" This was followed by two whistling sounds of canister shot, one after another. The shot rattled against the stone of the gate and upon the wooden beams and screens, and two wavering clouds of smoke rose over the Square.

A few instants after the echo of the reports resounding over the stone-built Kremlin had died away the French heard a strange sound above their head. Thousands of crows rose above the walls and circled in the air, cawing and noisily flapping their wings.

Together with that sound came a solitary human cry from the gateway and amid the smoke appeared the figure of a bareheaded man in a peasant's coat. He grasped a musket and took aim at the French.

"Fire!" repeated the officer once more, and the reports of a musket and of two cannon shots were heard simultaneously. The gate again hidden by smoke.

Nothing more stirred behind the screens and the French infantry soldiers and officers advanced to the gate. In the gateway lay three

wounded and four dead. Two men in peasant coats ran away at the foot of the wall, toward the Znamenka.

"Clear that away!" said the officer, pointing to the beams and the corpses, and the French soldiers, after dispatching the wounded, threw the corpses over the parapet.

Who these men were nobody knew. "Clear that away!" was all that was said of them, and they were thrown over the parapet and removed later on that they might not stink. Thiers alone dedicates a few eloquent lines to their memory: "These wretches had occupied the sacred citadel, having supplied themselves with guns from the arsenal, and fired" (the wretches) "at the French. Some of them were sabered and the Kremlin was purged of their presence."

Murat was informed that the way had been cleared. The French entered the gates and began pitching their camp in the Senate Square. Out of the
windows of the Senate House the soldiers threw chairs into the Square for fuel and kindled fires there.

Other detachments passed through the Kremlin and encamped along the Moroseyka, the Lubyanka, and Pokrovka Streets. Others quartered themselves along the Vozdvizhenka, the Nikolski, and the Tverskoy Streets. No masters of the houses being found anywhere, the French were not billeted on the inhabitants as is usual in towns but lived in it as in a camp.

Though tattered, hungry, worn out, and reduced to a third of their original number, the French entered Moscow in good marching order. It was a weary and famished, but still a fighting and menacing army. But it remained an army only until its soldiers had dispersed into their different lodgings. As soon as the men of the various regiments began to disperse among the wealthy and deserted houses, the army was lost forever and there came into being something nondescript, neither citizens nor soldiers but what are known as marauders. When five
weeks later these same men left Moscow, they no longer formed an army. They were a mob of marauders, each carrying a quantity of articles which seemed to him valuable or useful. The aim of each man when he left Moscow was no longer, as it had been, to conquer, but merely to keep what he had acquired. Like a monkey which puts its paw into the narrow neck of a jug, and having seized a handful of nuts will not open its fist for fear of losing what it holds, and therefore perishes, the French when they left Moscow had inevitably to perish because they carried their loot with them, yet to abandon what they had stolen was as impossible for them as it is for the monkey to open its paw and let go of its nuts. Ten minutes after each regiment

had entered a Moscow district, not a soldier or officer was left. Men in military uniforms and Hessian boots could be seen through the windows, laughing and walking through the rooms. In cellars and storerooms similar men were busy among the provisions, and in the yards unlocking or breaking open coach house and stable doors, lighting fires in kitchens and kneading and baking bread with rolled-up sleeves, and cooking; or frightening, amusing, or caressing women and children. There were many such men both in the shops and houses--but there was no army.

Order after order was issued by the French commanders that day forbidding the men to disperse about the town, sternly forbidding any violence to the inhabitants or any looting, and announcing a roll call for that very evening. But despite all these measures the men, who had till then constituted an army, flowed all over the wealthy, deserted city with its comforts and plentiful supplies. As a hungry herd of cattle keeps well together when crossing a barren field, but gets out of hand and at once disperses uncontrollably as soon as it reaches rich pastures, so did the army disperse all over the wealthy city.

No residents were left in Moscow, and the soldiers--like water percolating through sand--spread irresistibly through the city in all directions from the Kremlin into which they had first marched. The cavalry, on entering a merchant's house that had been abandoned and finding there stabling more than sufficient for their horses, went on, all the same, to the next house which seemed to them better. Many of them appropriated several houses, chalked their names on them, and quarreled and even fought with other companies for them. Before they had had time to secure quarters the soldiers ran out into the streets to see the city and, hearing that everything had been abandoned, rushed to places where valuables were to be had for the taking. The officers followed to check the soldiers and were involuntarily drawn into doing the same. In Carriage Row carriages had been left in the shops, and generals flocked there to select caleches and coaches for themselves. The few inhabitants who had remained invited commanding officers to their houses, hoping thereby to secure themselves from being plundered. There were masses of wealth and there seemed no end to it. All around the quarters occupied by the French were other regions still unexplored and unoccupied where, they thought, yet greater riches might be found. And Moscow engulfed the army ever deeper and deeper. When water is spilled on dry ground both the dry ground and the water disappear and mud results; and in the same way the entry of the famished army into the rich and deserted city resulted in fires and looting and the destruction of both the

army and the wealthy city.

The French attributed the Fire of Moscow au patriotisme feroce de Rostopchine,* the Russians to the barbarity of the French. In reality, however, it was not, and could not be, possible to explain the burning of Moscow by making any individual, or any group of people, responsible for it. Moscow was burned because it found itself in a position in which any town built of wood was bound to burn, quite apart from whether it had, or
had not, a hundred and thirty inferior
fire engines. Deserted Moscow had to burn as inevitably as a heap of shavings has to burn on which sparks continually fall for several days. A town built of wood, where scarcely a day passes without conflagrations when the house owners are in residence and a police force is present, cannot help burning when its inhabitants have left it and it is occupied by soldiers who smoke pipes, make campfires of the Senate chairs in the Senate Square, and cook themselves meals twice a day. In peacetime it is only necessary to billet troops in the villages of any district and the number of fires in that district immediately increases. How much then must the probability of fire be increased in an abandoned, wooden town where foreign troops are quartered. "Le patriotisme feroce de Rostopchine" and the barbarity of the French were not to blame in the matter. Moscow was set on fire by the soldiers' pipes, kitchens, and campfires, and by the carelessness of enemy soldiers
occupying houses they did not own. Even
if there was any arson (which is very doubtful, for no one had any reason to burn the houses--in any case a troublesome and dangerous thing to do), arson cannot be regarded as the cause, for the same thing would have happened without any incendiarism.

*To Rostopchin's ferocious patriotism.

However tempting it might be for the French to blame Rostopchin's ferocity and for Russians to blame the scoundrel Bonaparte, or later on to place an heroic torch in the hands of their own people, it is impossible not to see that there could be no such direct cause of the fire, for Moscow had to burn as every village, factory, or house must burn which is left by its owners and in which strangers are allowed to live and cook their porridge. Moscow was burned by its inhabitants, it is true, but by those who had abandoned it and not by those who remained in it. Moscow when occupied by the enemy did not remain intact like Berlin, Vienna, and other towns,
simply because its
inhabitants abandoned it and did not welcome the French with bread and

salt, nor bring them the keys of the city.

CHAPTER XXVII

The absorption of the French by Moscow, radiating starwise as it did, only reached the quarter where Pierre was staying by the evening of the second of September.

After the last two days spent in solitude and unusual circumstances, Pierre was in a state bordering on insanity. He was completely obsessed by one persistent thought. He did not know how or when this thought had taken such possession of him, but he remembered nothing of the past, understood nothing of the present, and all he saw and heard appeared to him like a dream.

He had left home only to escape the intricate tangle of life's demands that enmeshed him, and which in his present condition he was unable to unravel. He had gone to Joseph Alexeevich's house, on the plea of sorting the deceased's books and papers, only in search of rest from life's turmoil, for in his mind
the memory of Joseph
Alexeevich was connected with a world of eternal, solemn, and calm thoughts, quite contrary to the restless confusion into which he felt himself being drawn. He sought a quiet refuge, and in Joseph Alexeevich's study he really found it. When he sat with his elbows on the dusty writing table in the deathlike stillness of the study, calm and significant memories of the last few days rose one after another in his imagination, particularly of the battle of Borodino and of that vague sense of his own insignificance and insincerity compared with the truth, simplicity, and strength of the class of men he mentally classed as they. When Gerasim roused him from his reverie the idea occurred to him of taking part in the popular defense of Moscow which he knew was projected. And with that object he had asked Gerasim to get him a peasant's coat and a pistol, confiding to him his intentions of remaining in Joseph Alexeevich's house and keeping his name secret. Then during the
first day spent in inaction and
solitude (he tried several times to fix his attention on the Masonic manuscripts, but was unable to do so) the idea that had previously occurred to him of the cabalistic significance of his name in connection with Bonaparte's more than once vaguely presented itself. But the idea that he, L'russe Besuhof, was destined to set a limit to the power of the Beast was as yet only one of the fancies that

often passed through his mind and left no trace behind.

When, having bought the coat merely with the object of taking part among the people in the defense of Moscow, Pierre had met the Rostovs and Natasha had said to him: "Are you remaining in Moscow?... How splendid!" the thought flashed into his mind that it really would be a good thing, even if Moscow were taken, for him to remain there and do what he was predestined to do.

Next day, with the sole idea of not sparing himself and not lagging in any way behind them, Pierre went to the Three Hills gate. But when
he returned to the house convinced that Moscow would not be defended, he suddenly felt that what before had seemed to him merely a possibility had now become absolutely necessary and inevitable. He must remain in Moscow, concealing his name, and must meet Napoleon and kill him, and either perish or put an end to the misery of all Europe- which it seemed to him was solely due to Napoleon.

Pierre knew all the details of the attempt on Bonaparte's life in 1809 by a German student in Vienna, and knew that the student had been shot. And the risk to which he would expose his life by carrying out his design excited him still more.

Two equally strong feelings drew Pierre irresistibly to this purpose. The first was a feeling of the necessity of sacrifice and suffering in view of the common calamity, the same feeling that had caused him to go to Mozhaysk on the twenty-fifth and to make his way to the very thick of the battle and had now caused him to run away from his home and, in place of
the luxury and comfort to which he was accustomed, to sleep on a hard sofa without undressing and eat the same food as Gerasim. The other was that vague and quite Russian feeling of contempt for everything conventional, artificial, and human--for everything the majority of men regard as the greatest good in the world. Pierre had first experienced this strange and fascinating feeling at the Sloboda Palace, when he had suddenly felt that wealth, power, and life--all that men so painstakingly acquire and guard--if it has any worth has so only by reason the joy with which it can all be renounced.

It was the feeling that induces a volunteer recruit to spend his last penny on drink, and a drunken man to smash mirrors or glasses for no apparent reason and knowing that it will cost him all the money he possesses: the feeling which causes a man to perform actions which from an ordinary point of view are insane, to test, as it were, his personal power and strength, affirming the existence of a higher,

nonhuman criterion of life.

From the very day Pierre had experienced this feeling for the first time at the Sloboda Palace he had been continuously under its influence, but only now found full satisfaction for it. Moreover, at this moment Pierre was supported in his design and prevented from renouncing it by what he had already done in that direction. If he were now to leave Moscow like everyone else, his flight from home, the peasant coat, the pistol, and his announcement to the Rostovs that he would remain in Moscow would all become not merely meaningless but contemptible and ridiculous, and to this Pierre was very sensitive.

Pierre's physical condition, as is always the case, corresponded to his mental state. The unaccustomed coarse food, the vodka he drank during those days, the absence of wine and cigars, his dirty unchanged linen, two almost sleepless nights passed on a short sofa without bedding--all this kept him in a state of excitement bordering on insanity.

It was
two o'clock in the afternoon. The French had already entered Moscow. Pierre knew this, but instead of acting he only thought about his undertaking, going over its minutest details in his mind. In his fancy he did not clearly picture to himself either the striking of the blow or the death of Napoleon, but with extraordinary vividness and melancholy enjoyment imagined his own destruction and heroic endurance.

"Yes, alone, for the sake of all, I must do it or perish!" he thought. "Yes, I will approach... and then suddenly... with pistol or dagger? But that is all the same! 'It is not I but the hand of Providence that punishes thee,' I shall say," thought he, imagining what he would say when killing Napoleon. "Well then, take me and execute me!" he went on, speaking to himself and bowing his head with a sad but firm expression.

While Pierre, standing in the middle of the room, was talking to himself in this way, the study door opened and on the threshold appeared the figure of Makar Alexeevich,
always so timid before but
now quite transformed.

His dressing gown was unfastened, his face red and distorted. He was obviously drunk. On seeing Pierre he grew confused at first, but noticing embarrassment on Pierre's face immediately grew bold and, staggering on his thin legs, advanced into the middle of the room.

"They're frightened," he said confidentially in a hoarse voice. "I say I won't surrender, I say... Am I not right, sir?"

He paused and then suddenly seeing the pistol on the table seized it with unexpected rapidity and ran out into the corridor.

Gerasim and the porter, who had followed Makar Alexeevich, stopped him in the vestibule and tried to take the pistol from him. Pierre, coming out into the corridor, looked with pity and repulsion at the half-crazy old man. Makar Alexeevich, frowning with exertion, held on to the pistol and screamed hoarsely, evidently with some heroic fancy in his head.

"To arms! Board them! No, you shan't get it," he yelled.

"That will
do, please, that will do. Have the goodness--please, sir, to let go! Please, sir..." pleaded Gerasim, trying carefully to steer Makar Alexeevich by the elbows back to the door.

"Who are you? Bonaparte!..." shouted Makar Alexeevich.

"That's not right, sir. Come to your room, please, and rest. Allow me to have the pistol."

"Be off, thou base slave! Touch me not! See this?" shouted Makar Alexeevich, brandishing the pistol. "Board them!"

"Catch hold!" whispered Gerasim to the porter.

They seized Makar Alexeevich by the arms and dragged him to the door.

The vestibule was filled with the discordant sounds of a struggle and of a tipsy, hoarse voice.

Suddenly a fresh sound, a piercing feminine scream, reverberated from the porch and the cook came running into the vestibule.

"It's them! Gracious heavens! O Lord, four of them, horsemen!" she cried.

Gerasim and the porter let Makar Alexeevich go, and in the now silent corridor the sound of several hands knocking at the front door could
be heard.

CHAPTER XXVIII

Pierre, having decided that until he had carried out his design he would disclose neither his identity nor his knowledge of French, stood at the half-open door of the corridor, intending to conceal himself as soon as the French entered. But the French entered and still Pierre did not retire--an irresistible curiosity kept him there.

There were two of them. One was an officer--a tall, soldierly, handsome man--the other evidently a private or an orderly, sunburned, short, and thin, with sunken cheeks and a dull expression. The officer walked in front, leaning on a stick and slightly limping. When he had advanced a few steps he stopped, having apparently decided that these were good quarters, turned round to the soldiers standing at the entrance, and in a loud voice of command ordered them to put up the horses. Having done that, the officer, lifting his elbow with a smart gesture, stroked his mustache and lightly touched his hat.

"Bonjour, la compagnie!"* said he gaily, smiling and looking about him.

*"Good day, everybody!"

No one gave any reply.

"Vous etes le bourgeois?"* the officer asked Gerasim.

*"Are you the master here?"

Gerasim gazed at the officer with an alarmed and inquiring look.

"Quartier, quartier, logement!" said the officer, looking down at the little man with a condescending and good-natured smile. "Les francais sont de bons enfants. Que diable! Voyons! Ne nous fachons pas, mon vieux!"* added he, clapping the scared and silent Gerasim on the shoulder. "Well, does no one speak French in this establishment?" he asked again in French, looking around and meeting Pierre's eyes. Pierre moved away from the door.

*"Quarters, quarters, lodgings! The French are good fellows. What the devil! There, don't let us be cross, old fellow!"

Again the officer turned to Gerasim and asked him to show him the rooms in the house.

"Master, not here--don't understand... me, you..." said Gerasim, trying to render his words more
comprehensible by contorting them.

Still smiling, the French officer spread out his hands before Gerasim's nose, intimating that he did not understand him either, and moved, limping, to the door at which Pierre was standing. Pierre wished to go away and conceal himself, but at that moment he saw Makar Alexeevich appearing at the open kitchen door with the pistol in his hand. With a madman's cunning, Makar Alexeevich eyed the Frenchman, raised his pistol, and took aim.

"Board them!" yelled the tipsy man, trying to press the trigger. Hearing the yell the officer turned round, and at the same moment Pierre threw himself on the drunkard. Just when Pierre snatched at and struck up the pistol Makar Alexeevich at last got his fingers on the trigger, there was a deafening report, and all were enveloped in a cloud of smoke. The Frenchman turned pale and rushed to the door.

Forgetting his intention of concealing his knowledge of French, Pierre, snatching away the pistol and throwing it down,
ran up to
the officer and addressed him in French.

"You are not wounded?" he asked.

"I think not," answered the Frenchman, feeling himself over. "But I have had a lucky escape this time," he added, pointing to the damaged plaster of the wall. "Who is that man?" said he, looking sternly at Pierre.

"Oh, I am really in despair at what has occurred," said Pierre rapidly, quite forgetting the part he had intended to play. "He is an unfortunate madman who did not know what he was doing."

The officer went up to Makar Alexeevich and took him by the collar.

Makar Alexeevich was standing with parted lips, swaying, as if about to fall asleep, as he leaned against the wall.

"Brigand! You shall pay for this," said the Frenchman, letting go of him. "We French are merciful after victory, but we do not pardon traitors," he added, with a look of gloomy dignity and a fine energetic gesture.

Pierre continued, in French, to persuade the officer not to hold that drunken imbecile to account. The Frenchman listened in silence with the same gloomy expression, but suddenly turned to Pierre with a smile. For a few seconds he looked at him in silence. His handsome face assumed a melodramatically gentle expression and he held out his hand.

"You have saved my life. You are French," said he.

For a Frenchman that deduction was indubitable. Only a Frenchman could perform a great deed, and to save his life--the life of M. Ramballe, captain of the 13th Light Regiment--was undoubtedly a very great deed.

But however indubitable that conclusion and the officer's conviction based upon it, Pierre felt it necessary to disillusion him.

"I am Russian," he said quickly.

"Tut, tut, tut! Tell that to others," said the officer, waving his finger before his nose and smiling. "You shall tell me all about that presently. I am delighted to meet a compatriot. Well, and what are we to do with this man?" he added, addressing himself to Pierre as to a brother.

Even if Pierre were not a Frenchman, having once received that loftiest of human appellations he could not renounce it, said the officer's look and tone. In reply to his last question Pierre again explained who Makar Alexeevich was and how just before their arrival that drunken imbecile had seized the loaded pistol which they had not had time to recover from him, and begged the officer to let the deed go unpunished.

The Frenchman expanded his chest and made a majestic gesture with his arm.

"You have saved my life! You are French. You ask his pardon? I grant it you. Lead that man away!" said he quickly and energetically, and taking the arm of Pierre whom he had promoted to be a Frenchman for saving his life, he went with him into the room.

The soldiers in the yard, hearing the shot, came into the passage asking what had happened, and expressed their readiness to punish the culprits, but the officer sternly checked them.

"You will be called in when you are wanted," he said.

The soldiers went out again, and the orderly, who had meanwhile had time to visit the kitchen, came up to his officer.

"Captain, there is soup and a leg of mutton in the kitchen," said he. "Shall I serve them up?"

"Yes, and some wine," answered the captain.

CHAPTER XXIX

When the French officer went into the room with Pierre the latter again thought it his duty to assure him that he was not French and wished to go away, but the officer would not hear of it. He was so very polite, amiable, good-natured, and genuinely grateful to Pierre for saving his life that Pierre had not the heart to refuse, and sat down with him in the parlor--the first room they entered. To Pierre's assurances that he was not a Frenchman, the captain, evidently not understanding how anyone could decline so flattering an appellation, shrugged his shoulders and said that if Pierre absolutely insisted on passing for a Russian let it be so, but for all that he would be forever bound to Pierre by gratitude for saving his life.

Had this man been endowed with the slightest capacity for perceiving the feelings of others, and had he at all understood what Pierre's feelings were, the latter would probably have left him, but the man's animated obtuseness to everything other than himself disarmed Pierre.

"A Frenchman or a Russian prince incognito," said the officer, looking at Pierre's fine though dirty linen and at the ring on his finger. "I owe my life to you and offer you my friendship. A Frenchman never forgets either an insult or a service. I offer you my friendship. That is all I can say."

There was so much good nature and nobility (in the French sense of the word) in the officer's voice, in the expression of his face and in his gestures, that Pierre, unconsciously smiling in response to the Frenchman's smile, pressed the hand held out to him.

"Captain Ramballe, of the 13th Light Regiment, Chevalier of the Legion of Honor for the affair on the seventh of September," he introduced himself, a self-satisfied irrepressible smile puckering his lips
under his mustache. "Will you now be so good as to tell me with whom I have the honor of conversing so pleasantly, instead of being in the ambulance with that maniac's bullet in my body?"

Pierre replied that he could not tell him his name and, blushing, began to try to invent a name and to say something about his reason for concealing it, but the Frenchman hastily interrupted him.

"Oh, please!" said he. "I understand your reasons. You are an officer... a superior officer perhaps. You have borne arms against us. That's not my business. I owe you my life. That is enough for me. I am quite at your service. You belong to the gentry?" he concluded with a shade of inquiry in his tone. Pierre bent his head. "Your baptismal name, if you please. That is all I ask. Monsieur Pierre, you say.... That's all I want to know."

When the mutton and an omelet had been served and a samovar and vodka brought, with some wine which the French had taken from a Russian cellar and brought with them, Ramballe
invited Pierre to share
his dinner, and himself began to eat greedily and quickly like a healthy and hungry man, munching his food rapidly with his strong teeth, continually smacking his lips, and repeating--"Excellent! Delicious!" His face grew red and was covered with perspiration. Pierre was hungry and shared the dinner with pleasure. Morel, the orderly, brought some hot water in a saucepan and placed a bottle of claret in it. He also brought a bottle of kvass, taken from the kitchen for them to try. That beverage was already known to the French and had been given a special name. They called it limonade de cochon (pig's lemonade), and Morel spoke well of the limonade de cochon he had found in the kitchen. But as the captain had the wine they had taken while passing through Moscow, he left the kvass to Morel and applied himself to the bottle of Bordeaux. He wrapped the bottle up to its neck in a table napkin and poured out wine for himself and for Pierre. The satisfaction of his
hunger and the wine rendered the
captain still more lively and he chatted incessantly all through dinner.

"Yes, my dear Monsieur Pierre, I owe you a fine votive candle for saving me from that maniac.... You see, I have bullets enough in my body already. Here is one I got at Wagram" (he touched his side) "and a second at Smolensk"--he showed a scar on his cheek--"and this leg which as you see does not want to march, I got that on the seventh at the great battle of la Moskowa. Sacre Dieu! It was splendid! That deluge of fire was worth seeing. It was a tough job you set us there, my word! You may be proud of it! And on my honor, in spite of the cough I caught there, I should be ready to begin again. I pity those who did not see it."

"I was there," said Pierre.

"Bah, really? So much the better! You are certainly brave foes. The great redoubt held out well, by my pipe!" continued the Frenchman. "And you made us pay dear for it. I was at it three times--sure as I sit here. Three times we reached the guns and three times we were thrown back like cardboard figures. Oh, it was beautiful, Monsieur Pierre! Your grenadiers were splendid, by heaven! I saw them close up their ranks six times in succession and march as if on parade. Fine fellows! Our King of Naples, who knows what's what, cried 'Bravo!' Ha, ha! So you are one of us soldiers!" he added, smiling, after a momentary pause. "So much the better, so much the better, Monsieur Pierre! Terrible in battle... gallant... with the fair" (he winked and smiled), "that's what the French are, Monsieur Pierre, aren't they?"

The captain was so naively and good-humoredly gay, so real, and so pleased with himself that Pierre almost winked back as he looked merrily at him. Probably the word "gallant" turned the captain's thoughts to the state of Moscow.

"Apropos, tell me please, is it true that the women have all left Moscow? What a queer idea! What had they to be afraid of?"

"Would not the French ladies leave Paris if the Russians entered it?" asked Pierre.

"Ha, ha, ha!" The Frenchman emitted a merry, sanguine chuckle, patting Pierre on the shoulder. "What a thing to say!" he exclaimed. "Paris?... But Paris, Paris..."

"Paris--the capital of the world," Pierre finished his remark for him.

The captain looked at Pierre. He had a habit of stopping short in

the middle of his talk and gazing intently with his laughing, kindly eyes.

"Well, if you hadn't told me you were Russian, I should have wagered that you were Parisian! You have that... I don't know what, that..." and having uttered this compliment, he again gazed at him in silence.

"I have been in Paris. I spent years there," said Pierre.

"Oh yes, one sees that plainly. Paris!... A man who doesn't know Paris is a savage. You can tell a Parisian two leagues off. Paris is Talma, la Duchenois, Potier, the Sorbonne, the boulevards," and noticing that his conclusion was weaker than what had gone before, he added quickly: "There is only one Paris in the world. You have been to Paris and have remained Russian. Well, I don't esteem you the less for it."

Under the influence of the wine he had drunk, and after the days he had spent alone with his depressing thoughts, Pierre involuntarily enjoyed talking with this cheerful and good-natured man.

"To return to your ladies--I hear they are lovely. What a wretched idea to go and bury themselves in the steppes when the French army is in Moscow. What a chance those girls have missed! Your peasants, now--that's another thing; but you civilized people, you ought to know us better than that. We took Vienna, Berlin, Madrid, Naples, Rome, Warsaw, all the world's capitals.... We are feared, but we are loved. We are nice to know. And then the Emperor..." he began, but Pierre interrupted him.

"The Emperor," Pierre repeated, and his face suddenly became sad and embarrassed, "is the Emperor...?"

"The Emperor? He is generosity, mercy, justice, order, genius-that's what the Emperor is! It is I, Ramballe, who tell you so.... I assure you I was his enemy eight years ago. My father was an emigrant count.... But that man has vanquished me. He has taken hold of me. I could not resist the sight of the grandeur and glory with which he has covered France. When I understood what he wanted--when I saw that he was preparing a bed of laurels for us, you know, I said to myself: 'That is a monarch,' and I devoted myself to him! So there! Oh yes, mon cher, he is the greatest man of the ages past or future."

"Is he in Moscow?" Pierre stammered with a guilty look.

The Frenchman looked at his guilty face and smiled.

"No, he will make his entry tomorrow," he replied, and continued his talk.

Their conversation was interrupted by the cries of several voices at the gate and by Morel, who came to say that some Wurttemberg hussars had come and wanted to put up their horses in the yard where the captain's horses were. This difficulty had arisen chiefly because the hussars did not understand what was said to them in French.

The captain had their senior sergeant called in, and in a stern voice asked him to what regiment he belonged, who was his commanding officer, and by what right he allowed himself to claim quarters that were already occupied. The German who knew little French, answered the two first questions by giving the names of his regiment and of his commanding officer, but in reply to the third question which he did not understand said, introducing broken French into his own German, that he was the quartermaster of the regiment and his commander had ordered him to occupy all the houses one after another. Pierre, who knew German, translated what the German said to the captain and gave the captain's reply to the Wurttemberg hussar in German. When he had understood what was said to him, the German submitted and took his men elsewhere. The captain went out into the porch and gave some orders in a loud voice.

When he returned to the room Pierre was sitting in the same place as before, with his head in his hands. His face expressed suffering. He really was suffering at that moment. When the captain went out and he was left alone, suddenly he came to himself and realized the position he was in. It was not that Moscow had been taken or that the happy conquerors were masters in it and were patronizing him. Painful as that was it was not that which tormented Pierre at the moment. He was tormented by the consciousness of his own weakness. The few glasses of wine he had drunk and the conversation with this good-natured man had destroyed the mood of concentrated gloom in which he had spent the last few days and which was essential for the execution of his design. The pistol, dagger, and peasant coat were ready. Napoleon was to enter the town next day. Pierre still considered that it would be a useful and worthy action to slay the evildoer, but now he felt that he would not do it. He did not know why, but he felt a foreboding that he would not carry out his intention. He struggled against the confession of his weakness but dimly felt that he could not overcome it and that his former gloomy frame of mind, concerning vengeance, killing, and self-sacrifice,

had been dispersed like dust by contact with the first man he met.

The captain returned to the room, limping slightly and whistling a tune.

The Frenchman's chatter which had previously amused Pierre now repelled him. The tune he was whistling, his gait, and the gesture with which he twirled his mustache, all now seemed offensive. "I will go away immediately. I won't say another word to him," thought Pierre. He thought this, but still sat in the same place. A strange feeling of weakness tied him to the spot; he wished to get up and go away, but could not do so.

The captain, on the other hand, seemed very cheerful. He paced up and down the room twice. His eyes shone and his mustache twitched as if he were smiling to himself at some amusing thought.

"The colonel of those Wurttembergers is delightful," he suddenly said.
"He's a German, but a nice fellow all the same.... But he's a German." He sat down facing Pierre. "By the way, you know German, then?"

Pierre looked at him in silence.

"What is the German for 'shelter'?"

"Shelter?" Pierre repeated. "The German for shelter is Unterkunft."

"How do you say it?" the captain asked quickly and doubtfully.

"Unterkunft," Pierre repeated.

"Onterkoff," said the captain and looked at Pierre for some seconds with laughing eyes. "These Germans are first-rate fools, don't you think so, Monsieur Pierre?" he concluded.

"Well, let's have another bottle of this Moscow Bordeaux, shall we? Morel will warm us up another little bottle. Morel!" he called out gaily.

Morel brought candles and a bottle of wine. The captain looked at Pierre by the candlelight and was evidently struck by the troubled expression on his companion's face. Ramballe, with genuine distress and sympathy in his face, went up to Pierre and bent over him.

"There now, we're sad," said

he, touching Pierre's hand. "Have I upset you? No, really, have you anything against me?" he asked Pierre. "Perhaps it's the state of affairs?"

Pierre did not answer, but looked cordially into the Frenchman's eyes whose expression of sympathy was pleasing to him.

"Honestly, without speaking of what I owe you, I feel friendship for you. Can I do anything for you? Dispose of me. It is for life and death. I say it with my hand on my heart!" said he, striking his chest.

"Thank you," said Pierre.

The captain gazed intently at him as he had done when he learned that "shelter" was Unterkunft in German, and his face suddenly brightened.

"Well, in that case, I drink to our friendship!" he cried gaily, filling two glasses with wine.

Pierre took one of the glasses and emptied it. Ramballe emptied his too, again pressed Pierre's hand, and leaned his elbows on the table in a pensive attitude.

"Yes, my dear friend," he began, "such is fortune's caprice. Who would have said that I should be a soldier and a captain of dragoons in the service of Bonaparte, as we used to call him? Yet here I am in Moscow with him. I must tell you, mon cher," he continued in the sad and measured tones of a man who intends to tell a long story, "that our name is one of the most ancient in France."

And with a Frenchman's easy and naive frankness the captain told Pierre the story of his ancestors, his childhood, youth, and manhood, and all about his relations and his financial and family affairs, "ma pauvre mere" playing of course an important part in the story.

"But all that is only life's setting, the real thing is love-love! Am I not right, Monsieur Pierre?" said he, growing animated. "Another glass?"

Pierre again emptied his glass and poured himself out a third.

"Oh, women, women!" and the captain, looking with glistening eyes at Pierre, began talking of love and of his love affairs.

There were very many of these, as one could easily believe, looking at the officer's handsome, self-satisfied face, and noting the eager enthusiasm with which he spoke of women. Though all Ramballe's love stories had the sensual character which Frenchmen regard as the special charm and poetry of love, yet he told his story with such sincere conviction that he alone had experienced and known all the charm of love and he described women so alluringly that Pierre listened to him with curiosity.

It was plain that l'amour which the Frenchman was so fond of was not that low and simple kind that Pierre had once felt for his wife, nor was it the romantic love stimulated by himself that he experienced for Natasha. (Ramballe despised both these kinds of love equally: the one he considered the "love of clodhoppers" and the other the "love of simpletons.") L'amour which the Frenchman worshiped consisted principally in the unnaturalness of his relation to the woman and in a combination of incongruities giving the chief charm to the feeling.

Thus the captain touchingly recounted the story of his love for a fascinating marquise of thirty-five and at the same time for a charming, innocent child of seventeen, daughter of the bewitching marquise. The conflict of magnanimity between the mother and the daughter, ending in the mother's sacrificing herself and offering her daughter in marriage to her lover, even now agitated the captain, though it was the memory of a distant past. Then he recounted an episode in which the husband played the part of the lover, and he--the lover--assumed the role of the husband, as well as several droll incidents from his recollections of Germany, where "shelter" is called Unterkunft and where the husbands eat sauerkraut and the young girls are "too blonde."

Finally, the latest episode in Poland still fresh in the captain's memory, and which he narrated with rapid gestures and glowing face, was of how he had saved the life of a Pole (in general, the saving of life continually occurred in the captain's stories) and the Pole had entrusted to him his enchanting wife (parisienne de coeur) while himself entering the French service. The captain was happy, the enchanting Polish lady wished to elope with him, but, prompted by magnanimity, the captain restored the wife to the husband, saying as he did so: "I have saved your life, and I save your honor!" Having repeated these words the captain wiped his eyes and gave himself a shake, as if driving away the weakness which assailed him at this touching recollection.

Listening to the captain's tales, Pierre--as often happens late in

the evening and under the influence of wine--followed all that was told him, understood it all, and at the same time followed a train of personal memories which, he knew not why, suddenly arose in his mind. While listening to these love stories his own love for Natasha unexpectedly rose to his mind, and going over the pictures of that love in his imagination he mentally compared them with Ramballe's tales. Listening to the story of the struggle between love and duty, Pierre
saw before his eyes every minutest detail of his last meeting with the object of his love at the Sukharev water tower. At the time of that meeting it had not produced an effect upon him--he had not even once recalled it. But now it seemed to him that that meeting had had in it something very important and poetic.

"Peter Kirilovich, come here! We have recognized you," he now seemed to hear the words she had uttered and to see before him her eyes, her smile, her traveling hood, and a stray lock of her hair... and there seemed to him something pathetic and touching in all this.

Having finished his tale about the enchanting Polish lady, the captain asked Pierre if he had ever experienced a similar impulse to sacrifice himself for love and a feeling of envy of the legitimate husband.

Challenged by this question Pierre raised his head and felt a need to express the thoughts that filled his mind. He began to explain that he understood love for a women somewhat differently. He said that
in
all his life he had loved and still loved only one woman, and that she could never be his.

"Tiens!" said the captain.

Pierre then explained that he had loved this woman from his earliest years, but that he had not dared to think of her because she was too young, and because he had been an illegitimate son without a name. Afterwards when he had received a name and wealth he dared not think of her because he loved her too well, placing her far above everything in the world, and especially therefore above himself.

When he had reached this point, Pierre asked the captain whether he understood that.

The captain made a gesture signifying that even if he did not understand it he begged Pierre to continue.

"Platonic love, clouds..." he muttered.

Whether it was the wine he had drunk, or an impulse of frankness, or the thought that this man did not, and never would, know any of those who played a part in his story, or whether it was all these things together, something loosened Pierre's tongue. Speaking thickly and with a faraway look in his shining eyes, he told the whole story of his life: his marriage, Natasha's love for his best friend, her betrayal of him, and all his own simple relations with her. Urged on by Ramballe's questions he also told what he had at first concealed--his own position and even his name.

More than anything else in Pierre's story the captain was impressed by the fact that Pierre was very rich, had two mansions in Moscow, and that he had abandoned everything and not left the city, but remained there concealing his name and station.

When it was late at night they went out together into the street. The night was warm and light. To the left of the house on the Pokrovka a fire glowed--the first of those that were beginning in Moscow. To the right and high up in the sky was the sickle of the waning moon and opposite to it hung that bright comet which was connected in Pierre's heart with his love. At the gate stood Gerasim, the cook, and two Frenchmen. Their laughter and their mutually incomprehensible remarks in two languages could be heard. They were looking at the glow seen in the town.

There was nothing terrible in the one small, distant fire in the immense city.

Gazing at the high starry sky, at the moon, at the comet, and at the glow from the fire, Pierre experienced a joyful emotion. "There now, how good it is, what more does one need?" thought he. And suddenly remembering his intention he grew dizzy and felt so faint that he leaned against the fence to save himself from falling.

Without taking leave of his new friend, Pierre left the gate with unsteady steps and returning to his room lay down on the sofa and immediately fell asleep.

CHAPTER XXX

The glow of the first fire that began on the second of September was

watched from the various roads by the fugitive Muscovites and by the retreating troops, with many different feelings.

The Rostov party spent the night at Mytishchi, fourteen miles from Moscow. They had started so late on the first of September, the road had been so blocked by vehicles and troops, so many things had been forgotten for which servants were sent back, that they had decided to spend that night at a place three miles out of Moscow. The next morning they woke late and were again delayed so often that they only got as far as Great Mytishchi. At ten o'clock that evening the Rostov family and the wounded traveling with them were all distributed in the yards and huts of that large village. The Rostovs' servants and coachmen and the orderlies of the wounded officers, after attending to their masters, had supper, fed the horses, and came out into the porches.

In a neighboring hut lay Raevski's adjutant with a fractured wrist. The awful pain he suffered made him moan incessantly and piteously, and his moaning sounded terrible in the darkness of the autumn night. He had spent the first night in the same yard as the Rostovs. The countess said she had been unable to close her eyes on account of his moaning, and at Mytishchi she moved into a worse hut simply to be farther away from the wounded man.

In the darkness of the night one of the servants noticed, above the high body of a coach standing before the porch, the small glow of another fire. One glow had long been visible and everybody knew that it was Little Mytishchi burning--set on fire by Mamonov's Cossacks.

"But look here, brothers, there's another fire!" remarked an orderly.

All turned their attention to the glow.

"But they told us Little Mytishchi had been set on fire by Mamonov's Cossacks."

"But that's not Mytishchi, it's farther away."

"Look, it must be in Moscow!"

Two of the gazers went round to the other side of the coach and sat down on its steps.

"It's more to the left, why, Little Mytishchi is over there, and

this is right on the other side."

Several men joined the first two.

"See how it's flaring," said one. "That's a fire in Moscow: either in the Sushchevski or the Rogozhski quarter."

No one replied to this remark and for some time they all gazed silently at the spreading flames of the second fire in the distance.

Old Daniel Terentich, the count's valet (as he was called), came up to the group and shouted at Mishka.

"What are you staring at, you good-for-nothing?... The count will be calling and there's nobody there; go and gather the clothes together."

"I only ran out to get some water," said Mishka.

"But what do you think, Daniel Terentich? Doesn't it look as if that glow were in Moscow?" remarked one of the footmen.

Daniel Terentich made no reply, and again for a long time they were all silent. The glow spread, rising and failing, farther and farther still.

"God have mercy.... It's windy and dry..." said another voice.

"Just look! See what it's doing now. O Lord! You can even see the crows flying. Lord have mercy on us sinners!"

"They'll put it out, no fear!"

"Who's to put it out?" Daniel Terentich, who had hitherto been silent, was heard to say. His voice was calm and deliberate. "Moscow it is, brothers," said he. "Mother Moscow, the white..." his voice faltered, and he gave way to an old man's sob.

And it was as if they had all only waited for this to realize the significance for them of the glow they were watching. Sighs were heard, words of prayer, and the sobbing of the count's old valet.

CHAPTER XXXI

The valet, returning to the cottage, informed the count that Moscow was burning. The count donned his dressing gown and went out to look. Sonya and Madame Schoss, who had not yet undressed, went out with him. Only Natasha and the countess remained in the room. Petya was no longer with the family, he had gone on with his regiment which was making for Troitsa.

The countess, on hearing that Moscow was on fire, began to cry. Natasha, pale, with a fixed look, was sitting on the bench under the icons just where she had sat down on arriving and paid no attention to her father's words. She was listening to the ceaseless moaning of the adjutant, three houses off.

"Oh, how terrible," said Sonya returning from the yard chilled and frightened. "I believe the whole of Moscow will burn, there's an awful glow! Natasha, do look! You can see it from the window," she said to her cousin, evidently wishing to distract her mind.

But Natasha looked at her as if not understanding what was said to her and again fixed her eyes on the corner of the stove. She had been in this condition of stupor since the morning, when Sonya, to the surprise and annoyance of the countess, had for some unaccountable reason found it necessary to tell Natasha of Prince Andrew's wound and of his being with their party. The countess had seldom been so angry with anyone as she was with Sonya. Sonya had cried and begged to be forgiven and now, as if trying to atone for her fault, paid unceasing attention to her cousin.

"Look, Natasha, how dreadfully it is burning!" said she.

"What's burning?" asked Natasha. "Oh, yes, Moscow."

And as if in order not to offend Sonya and to get rid of her, she turned her face to the window, looked out in such a way that it was evident that she could not see anything, and again settled down in her former attitude.

"But you didn't see it!"

"Yes, really I did," Natasha replied in a voice that pleaded to be left in peace.

Both the countess and Sonya understood that, naturally, neither Moscow nor the burning of Moscow nor anything else could seem of

importance to Natasha.

The count returned and lay down behind the partition. The countess went up to her daughter and touched her head with the back of her hand as she was wont to do when Natasha was ill, then touched her forehead with her lips as if to feel whether she was feverish, and finally kissed her.

"You are cold. You are trembling all over. You'd better lie down," said the countess.

"Lie down? All right, I will. I'll lie down at once," said Natasha.

When Natasha had been told that morning that Prince Andrew was seriously wounded and was
traveling with their party, she had at first
asked many questions: Where was he going? How was he wounded? Was it serious? And could she see him? But after she had been told that she could not see him, that he was seriously wounded but that his life was not in danger, she ceased to ask questions or to speak at all, evidently disbelieving what they told her, and convinced that say what she might she would still be told the same. All the way she had sat motionless in a corner of the coach with wide open eyes, and the expression in them which the countess knew so well and feared so much, and now she sat in the same way on the bench where she had seated herself on arriving. She was planning something and either deciding or had already decided something in her mind. The countess knew this, but what it might be she did not know, and this alarmed and tormented her.

"Natasha, undress, darling; lie down on my bed."

A bed had been made on a bedstead for the countess only. Madame Schoss and the
two girls were to sleep on some hay on the floor.

"No, Mamma, I will lie down here on the floor," Natasha replied irritably and she went to the window and opened it. Through the open window the moans of the adjutant could be heard more distinctly. She put her head out into the damp night air, and the countess saw her slim neck shaking with sobs and throbbing against the window frame. Natasha knew it was not Prince Andrew who was moaning. She knew Prince Andrew was in the same yard as themselves and in a part of the hut across the passage; but this dreadful incessant moaning made her sob. The countess exchanged a look with Sonya.

"Lie down, darling; lie down, my pet," said the countess, softly touching Natasha's shoulders. "Come, lie down."

"Oh, yes... I'll lie down at once," said Natasha, and began hurriedly undressing, tugging at the tapes of her petticoat.

When she had thrown off her dress and put on a dressing jacket, she sat down with her foot under her on the bed that had been made up on the floor, jerked her thin and rather short plait of hair to the front, and began replaiting it. Her long, thin, practiced fingers rapidly unplaited, replaited, and tied up her plait. Her head moved from side to side from habit, but her eyes, feverishly wide, looked fixedly before her. When her toilet for the night was finished she sank gently onto the sheet spread over the hay on the side nearest the door.

"Natasha, you'd better lie in the middle," said Sonya.

"I'll stay here," muttered Natasha. "Do lie down," she added crossly, and buried her face in the pillow.

The countess, Madame Schoss, and Sonya undressed hastily and lay down. The small lamp in front of the icons was the only light left in the room. But in the yard there was a light from the fire at Little Mytishchi a mile and a half away, and through the night came the noise of people shouting at a tavern Mamonov's Cossacks had set up across the street, and the adjutant's unceasing moans could still be heard.

For a long time Natasha listened attentively to the sounds that reached her from inside and outside the room and did not move. First she heard her mother praying and sighing and the creaking of her bed under her, then Madame Schoss' familiar whistling snore and Sonya's gentle breathing. Then the countess called to Natasha. Natasha did not answer.

"I think she's asleep, Mamma," said Sonya softly.

After short silence the countess spoke again but this time no one replied.

Soon after that Natasha heard her mother's even breathing. Natasha did not move, though her little bare foot, thrust out from under the quilt, was growing cold on the bare floor.

As if to celebrate a victory over everybody, a cricket chirped in a crack in the wall. A cock crowed far off and another replied near by. The shouting in the tavern had died down; only the moaning of the adjutant was heard. Natasha sat up.

"Sonya, are you asleep? Mamma?" she whispered.

No one replied. Natasha rose slowly and carefully, crossed herself,
and stepped cautiously on the cold and dirty floor with her slim, supple, bare feet. The boards of the floor creaked. Stepping cautiously from one foot to the other she ran like a kitten the few steps to the door and grasped the cold door handle.

It seemed to her that something heavy was beating rhythmically against all the walls of the room: it was her own heart, sinking with alarm and terror and overflowing with love.

She opened the door and stepped across the threshold and onto the cold, damp earthen floor of the passage. The cold she felt refreshed her. With her bare feet she touched a sleeping man, stepped over him, and opened the door into the part of the hut where Prince Andrew lay. It was dark in there. In the farthest corner, on a bench beside a bed on which something was lying, stood a tallow candle with a long, thick, and smoldering wick.

From the moment she had been told that of Prince Andrew's wound and his presence there, Natasha had resolved to see him.
She did not
know why she had to, she knew the meeting would be painful, but felt the more convinced that it was necessary.

All day she had lived only in hope of seeing him that night. But now that the moment had come she was filled with dread of what she might see. How was he maimed? What was left of him? Was he like that incessant moaning of the adjutant's? Yes, he was altogether like that. In her imagination he was that terrible moaning personified. When she saw an indistinct shape in the corner, and mistook his knees raised under the quilt for his shoulders, she imagined a horrible body there, and stood still in terror. But an irresistible impulse drew her forward. She cautiously took one step and then another, and found herself in the middle of a small room containing baggage. Another man-Timokhin--was lying in a corner on the benches beneath the icons, and two others--the doctor and a valet--lay on the floor.

The valet sat up and whispered something. Timokhin, kept awake by the
pain in his wounded leg, gazed with wide-open eyes at this strange apparition of a girl in a white chemise, dressing jacket, and nightcap. The valet's sleepy, frightened exclamation, "What do you want? What's the matter?" made Natasha approach more swiftly to what was lying in the corner. Horribly unlike a man as that body looked, she must see him. She passed the valet, the snuff fell from the candle

wick, and she saw Prince Andrew clearly with his arms outside the quilt, and such as she had always seen him.

He was the same as ever, but the feverish color of his face, his glittering eyes rapturously turned toward her, and especially his neck, delicate as a child's, revealed by the turn-down collar of his shirt, gave him a peculiarly innocent, childlike look, such as she had never seen on him before. She went up to him and with a swift, flexible, youthful movement dropped on her knees.

He smiled and held out his hand to her.

CHAPTER XXXII

Seven days had passed since Prince Andrew found himself in the ambulance station on the field of Borodino. His feverish state and the inflammation of his bowels, which were injured, were in the doctor's opinion sure to carry him off. But on the seventh day he ate with pleasure a piece of bread with some tea, and the doctor noticed that his temperature was lower. He had regained consciousness that morning. The first night after they left Moscow had been fairly warm and he had remained in the caleche, but at Mytishchi the wounded man himself asked to be taken out and given some tea. The pain caused by his removal into the hut had made him groan aloud and again lose consciousness. When he had been placed on his camp bed he lay for a long time motionless with closed eyes. Then he opened them and whispered softly: "And the tea?" His remembering such a small detail of everyday life astonished the doctor. He felt Prince Andrew's pulse, and to his surprise and dissatisfaction found it had improved. He was dissatisfied because he knew by experience that if his patient did not die now, he would do so a little later with greater suffering. Timokhin, the red-nosed major of Prince Andrew's regiment, had joined him in Moscow and was being taken along with him, having been wounded in the leg at the battle of Borodino. They were accompanied by a doctor, Prince Andrew's valet, his coachman, and two orderlies.

They gave Prince Andrew some tea. He drank it eagerly, looking with feverish eyes at the door in front of him as if trying to understand and remember something.

"I don't want any more. Is Timokhin here?" he asked.

Timokhin crept along the bench to him.

"I am here, your excellency."

"How's your wound?"

"Mine, sir? All right. But how about you?"

Prince Andrew again pondered as if trying to remember something.

"Couldn't one get a book?" he asked.

"What book?"

"The Gospels. I haven't one."

The doctor promised to procure it for him and began to ask how he was feeling. Prince Andrew answered all his questions reluctantly but reasonably, and then said he wanted a bolster placed under him as he was uncomfortable and in great pain. The doctor and valet lifted the cloak with which he was covered and, making wry faces at the noisome smell of mortifying flesh that came from the wound, began examining that dreadful place. The doctor was very much displeased about something and made a change in the dressings, turning the wounded man over so that he groaned again and grew unconscious and delirious from the agony. He kept asking them to get him the book and put it under him.

"What trouble would it be to you?" he said. "I have not got one. Please get it for me and put it under for a moment," he pleaded in a piteous voice.

The doctor went into the passage to wash his hands.

"You fellows have no conscience," said he to the valet who was pouring water over his hands. "For just one moment I didn't look after you... It's such pain, you know, that I wonder how he can bear it."

"By the Lord Jesus Christ, I thought we had put something under him!" said the valet.

The first time Prince Andrew understood where he was and what was the matter with him and remembered being wounded and how was when he asked to be carried into the hut after his caleche had stopped at

Mytishchi. After growing confused from pain while being carried into the hut he again regained consciousness, and while drinking tea once more recalled all that had happened to him, and above all vividly remembered the moment at the ambulance station when, at the sight of the sufferings of a man he disliked, those new thoughts had come to him which promised him happiness. And those thoughts, though now vague and indefinite, again possessed his soul. He remembered that he had now a new source of happiness and that this happiness had something to do with the Gospels. That was why he asked for a copy of them. The uncomfortable position in which they had put him and turned him over again confused his thoughts, and when he came to himself a third time it was in the complete stillness of the night. Everybody near him was sleeping. A cricket chirped from across the passage; someone was shouting and singing in the street; cockroaches rustled on the table, on the icons, and on the walls, and a big fly flopped at the head of the bed and around the candle beside him, the wick of which was charred and had shaped itself like a mushroom.

His mind was not in a normal state. A healthy man usually thinks of, feels, and remembers innumerable things simultaneously, but has the power and will to select one sequence of thoughts or events on which to fix his whole attention. A healthy man can tear himself away from the deepest reflections to say a civil word to someone who comes in and can then return again to his own thoughts. But Prince Andrew's mind was not in a normal state in that respect. All the powers of his mind were more active and clearer than ever, but they acted apart from his will. Most diverse thoughts and images occupied him simultaneously. At times his brain suddenly began to work with a vigor, clearness, and depth it had never reached when he was in health, but suddenly in the midst of its work it would turn to some unexpected idea and he had not the strength to turn it back again.

"Yes, a new happiness was revealed to me of which man cannot be deprived," he thought as he lay in the semi-darkness of the quiet hut, gazing fixedly before him with feverish wide open eyes. "A happiness lying beyond material forces, outside the material influences that act on man--a happiness of the soul alone, the happiness of loving. Every man can understand it, but to conceive it and enjoin it was possible only for God. But how did God enjoin that law? And why was the Son...?"

And suddenly the sequence of these thoughts broke off, and Prince Andrew heard (without knowing whether it was a delusion or reality) a soft whispering voice incessantly and rhythmically repeating "piti-piti-piti," and then "titi," and

then again "piti-piti-piti,"
and "ti-ti" once more. At the same time he felt that above his face, above the very middle of it, some strange airy structure was being erected out of slender needles or splinters, to the sound of this whispered music. He felt that he had to balance carefully (though it was difficult) so that this airy structure should not collapse; but nevertheless it kept collapsing and again slowly rising to the sound of whispered rhythmic music--"it stretches, stretches, spreading out and stretching," said Prince Andrew to himself. While listening to this whispering and feeling the sensation of this drawing out and the construction of this edifice of needles, he also saw by glimpses a red halo round the candle, and heard the rustle of the cockroaches and the buzzing of the fly that flopped against his pillow and his face. Each time the fly touched his face it gave him a burning sensation and yet to his surprise it did not destroy the structure, though it knocked against
the very region of his face where it was rising. But besides this there was something else of importance. It was something white by the door--the statue of a sphinx, which also oppressed him.

"But perhaps that's my shirt on the table," he thought, "and that's my legs, and that is the door, but why is it always stretching and drawing itself out, and 'piti-piti-piti' and 'ti-ti' and 'piti-piti-piti'...? That's enough, please leave off!" Prince Andrew painfully entreated someone. And suddenly thoughts and feelings again swam to the surface of his mind with peculiar clearness and force.

"Yes--love," he thought again quite clearly. "But not love which loves for something, for some quality, for some purpose, or for some reason, but the love which I--while dying--first experienced when I saw my enemy and yet loved him. I experienced that feeling of love which is the very essence of the soul and does not require an object. Now again I feel that bliss. To love one's neighbors, to love one's
enemies, to love everything, to love God in all His manifestations. It is possible to love someone dear to you with human love, but an enemy can only be loved by divine love. That is why I experienced such joy when I felt that I loved that man. What has become of him? Is he alive?...

"When loving with human love one may pass from love to hatred, but divine love cannot change. No, neither death nor anything else can destroy it. It is the very essence of the soul. Yet how many people have I hated in my life? And of them all, I loved and hated none as I did her." And he vividly pictured to himself Natasha, not as he had done in the past with nothing but her charms which gave him

delight, but for the first time picturing to himself her soul. And he understood her feelings, her sufferings, shame, and remorse. He now understood for the first time all the cruelty of his rejection of her, the cruelty of his rupture with her. "If only it were possible for me to see her once more! Just once, looking into those eyes to say..."

"Piti-piti-piti and ti-ti and piti-piti-piti boom!" flopped the fly... And his attention was suddenly carried into another world, a world of reality and delirium in which something particular was happening. In that world some structure was still being erected and did not fall, something was still stretching out, and the candle with its red halo was still burning, and the same shirtlike sphinx lay near the door; but besides all this something creaked, there was a whiff of fresh air, and a new white sphinx appeared, standing at the door. And that sphinx had the pale face and shining eyes of the very Natasha of whom he had just been thinking.

"Oh, how oppressive this continual delirium is," thought Prince Andrew, trying to drive that face from his imagination. But the face remained before him with the force of reality and drew nearer. Prince Andrew wished to return that former world of pure thought, but he could not, and delirium drew him back into its domain. The soft whispering voice continued its rhythmic murmur, something oppressed him and stretched out, and the strange face was before him. Prince Andrew collected all his strength in an effort to recover his senses, he moved a little, and suddenly there was a ringing in his ears, a dimness in his eyes, and like a man plunged into water he lost consciousness. When he came to himself, Natasha, that same living Natasha whom of all people he most longed to love with this new pure divine love that had been revealed to him, was kneeling before him. He realized that it was the real living Natasha, and he was not surprised but quietly happy. Natasha, motionless on her knees (she was unable to stir), with frightened eyes riveted on him, was restraining her sobs. Her face was pale and rigid. Only in the lower part of it something quivered.

Prince Andrew sighed with relief, smiled, and held out his hand.

"You?" he said. "How fortunate!"

With a rapid but careful movement Natasha drew nearer to him on her knees and, taking his hand carefully, bent her face over it and began kissing it, just touching it lightly with her lips.

"Forgive me!" she whispered, raising her head and glancing at him. "Forgive me!"

"I love you," said Prince Andrew.

"Forgive...!"

"Forgive what?" he asked.

"Forgive me for what I ha-ve do-ne!" faltered Natasha in a scarcely audible, broken whisper, and began kissing his hand more rapidly, just touching it with her lips.

"I love you more, better than before," said Prince Andrew, lifting her face with his hand so as to look into her eyes.

Those eyes, filled with happy tears, gazed at him timidly, compassionately, and with joyous love. Natasha's thin pale face, with its swollen lips, was more than plain--it was dreadful. But Prince Andrew did not see that, he saw her shining eyes which were beautiful. They heard the sound of voices behind them.

Peter the valet, who was now wide awake, had roused the doctor. Timokhin, who had not slept at all because of the pain in his leg, had long been watching all that was going on, carefully covering his bare body with the sheet as he huddled up on his bench.

"What's this?" said the doctor, rising from his bed. "Please go away, madam!"

At that moment a maid sent by the countess, who had noticed her daughter's absence, knocked at the door.

Like a somnambulist aroused from her sleep Natasha went out of the room and, returning to her hut, fell sobbing on her bed.

From that time, during all the rest of the Rostovs' journey, at every halting place and wherever they spent a night, Natasha never left the wounded Bolkonski, and the doctor had to admit that he had not expected from a young girl either such firmness or such skill in nursing a wounded man.

Dreadful as the countess imagined it would be should Prince Andrew die in her daughter's arms during the journey--as, judging by what the doctor said, it seemed might easily happen--she could not oppose Natasha. Though with the intimacy now

established between the
wounded man and Natasha the thought occurred that should he recover their former engagement would be renewed, no one--least of all Natasha and Prince Andrew--spoke of this: the unsettled question of life and death, which hung not only over Bolkonski but over all Russia, shut out all other considerations.

CHAPTER XXXIII

On the third of September Pierre awoke late. His head was aching, the clothes in which he had slept without undressing felt uncomfortable on his body, and his mind had a dim consciousness of something shameful he had done the day before. That something shameful was his yesterday's conversation with Captain Ramballe.

It was eleven by the clock, but it seemed peculiarly dark out of doors. Pierre rose, rubbed his eyes, and seeing the pistol with an engraved stock which Gerasim had replaced on the writing table, he remembered where he was and what lay before him that very day.

"Am I not too late?" he thought. "No, probably he won't make his entry
into Moscow before noon."

Pierre did not allow himself to reflect on what lay before him, but hastened to act.

After arranging his clothes, he took the pistol and was about to go out. But it then occurred to him for the first time that he certainly could not carry the weapon in his hand through the streets. It was difficult to hide such a big pistol even under his wide coat. He could not carry it unnoticed in his belt or under his arm. Besides, it had been discharged, and he had not had time to reload it. "No matter, dagger will do," he said to himself, though when planning his design he had more than once come to the conclusion that the chief mistake made by the student in 1809 had been to try to kill Napoleon with a dagger. But as his chief aim consisted not in carrying out his design, but in proving to himself that he would not abandon his intention and was doing all he could to achieve it, Pierre hastily took the blunt jagged dagger in a green sheath which he had bought at
the Sukharev market with the
pistol, and hid it under his waistcoat.

Having tied a girdle over his coat and pulled his cap low on his head, Pierre went down the corridor, trying to avoid making a noise or meeting the captain, and passed out into the street.

The conflagration, at which he had looked with so much indifference the evening before, had greatly increased during the night. Moscow was on fire in several places. The buildings in Carriage Row, across the river, in the Bazaar and the Povarskoy, as well as the barges on the Moskva River and the timber yards by the Dorogomilov Bridge, were all ablaze.

Pierre's way led through side streets to the Povarskoy and from there to the church of St. Nicholas on the Arbat, where he had long before decided that the deed should should be done. The gates of most of the houses were locked and the shutters up. The streets and lanes were deserted. The air was full of smoke and the smell of burning. Now and then he met Russians with anxious and timid faces,
and Frenchmen with an air not of the city but of the camp, walking in the middle of the streets. Both the Russians and the French looked at Pierre with surprise. Besides his height and stoutness, and the strange morose look of suffering in his face and whole figure, the Russians stared at Pierre because they could not make out to what class he could belong. The French followed him with astonishment in their eyes chiefly because Pierre, unlike all the other Russians who gazed at the French with fear and curiosity, paid no attention to them. At the gate of one house three Frenchmen, who were explaining something to some Russians who did not understand them, stopped Pierre asking if he did not know French.

Pierre shook his head and went on. In another side street a sentinel standing beside a green caisson shouted at him, but only when the shout was threateningly repeated and he heard the click of the man's musket as he raised it did Pierre understand that he had to pass on the
other side of the street. He heard nothing and saw nothing of what went on around him. He carried his resolution within himself in terror and haste, like something dreadful and alien to him, for, after the previous night's experience, he was afraid of losing it. But he was not destined to bring his mood safely to his destination. And even had he not been hindered by anything on the way, his intention could not now have been carried out, for Napoleon had passed the Arbat more than four hours previously on his way from the Dorogomilov suburb to the Kremlin, and was now sitting in a very gloomy frame of mind in a royal study in the Kremlin, giving detailed and exact orders as to measures to be taken immediately to extinguish the fire, to prevent looting, and to reassure the inhabitants. But Pierre did not know

this; he was entirely absorbed in what lay before him, and was tortured--as those are who obstinately undertake a task that is impossible for them not because of its difficulty but because of its incompatibility with their natures--by the fear of weakening at the decisive moment and so losing his self-esteem.

Though he heard and saw nothing around him he found his way by instinct and did not go wrong in the side streets that led to the Povarskoy.

As Pierre approached that street the smoke became denser and denser- he even felt the heat of the fire. Occasionally curly tongues of flame rose from under the roofs of the houses. He met more people in the streets and they were more excited. But Pierre, though he felt that something unusual was happening around him, did not realize that he was approaching the fire. As he was going along a foot path across a wide-open space adjoining the Povarskoy on one side and the gardens of Prince Gruzinski's house on the other, Pierre suddenly heard the desperate weeping of a woman close to him. He stopped as if awakening from a dream and lifted his head.

By the side of the path, on the dusty dry grass, all sorts of household goods lay in a heap: featherbeds, a samovar, icons, and trunks. On the ground, beside the trunks, sat a thin woman no longer young, with long, prominent upper teeth, and wearing a black cloak and cap. This woman, swaying to and fro and muttering something, was choking with sobs. Two girls of about ten and twelve, dressed in dirty short frocks and cloaks, were staring at their mother with a look of stupefaction on their pale frightened faces. The youngest child, a boy of about seven, who wore an overcoat and an immense cap evidently not his own, was crying in his old nurse's arms. A dirty, barefooted maid was sitting on a trunk, and, having undone her pale-colored plait, was pulling it straight and sniffing at her singed hair. The woman's husband, a short, round-shouldered man in the undress uniform of a civilian official, with sausage-shaped whiskers and showing under his square-set cap the hair smoothly brushed forward over his temples, with expressionless face was moving the trunks, which were placed one on another, and was dragging some garments from under them.

As soon as she saw Pierre, the woman almost threw herself at his feet.

"Dear people, good Christians, save me, help me, dear friends... help us, somebody," she muttered between her sobs. "My girl... My

daughter! My youngest daughter is left behind. She's burned! Ooh! Was it for this I nursed you.... Ooh!"

"Don't, Mary Nikolievna!" said her husband to her in a low voice, evidently only to justify himself before the stranger. "Sister must have taken her, or else where can she be?" he added.

"Monster! Villain!" shouted the woman angrily, suddenly ceasing to weep. "You have no heart, you don't feel for your own child! Another man would have rescued her from the fire. But this is a monster and neither a man nor a father! You, honored sir, are a noble man," she went on, addressing Pierre rapidly between her sobs. "The fire broke out alongside, and blew our way, the maid called out 'Fire!' and we rushed to collect
our things. We ran out just as we were.... This is
what we have brought away.... The icons, and my dowry bed, all the rest is lost. We seized the children. But not Katie! Ooh! O Lord!..." and again she began to sob. "My child, my dear one! Burned, burned!"

"But where was she left?" asked Pierre.

From the expression of his animated face the woman saw that this man might help her.

"Oh, dear sir!" she cried, seizing him by the legs. "My benefactor, set my heart at ease.... Aniska, go, you horrid girl, show him the way!" she cried to the maid, angrily opening her mouth and still farther exposing her long teeth.

"Show me the way, show me, I... I'll do it," gasped Pierre rapidly.

The dirty maidservant stepped from behind the trunk, put up her plait, sighed, and went on her short, bare feet along the path. Pierre felt as if he had come back to life after a heavy swoon. He held his head higher, his eyes shone with the light of life, and with swift steps he followed the maid, overtook
her, and came out on the
Povarskoy. The whole street was full of clouds of black smoke. Tongues of flame here and there broke through that cloud. A great number of people crowded in front of the conflagration. In the middle of the street stood a French general saying something to those around him. Pierre, accompanied by the maid, was advancing to the spot where the general stood, but the French soldiers stopped him.

"On ne passe pas!"* cried a voice.

*"You can't pass!

"This way, uncle," cried the girl. "We'll pass through the side street, by the Nikulins'!"

Pierre turned back, giving a spring now and then to keep up with her. She ran across the street, turned down a side street to the left, and, passing three houses, turned into a yard on the right.

"It's here, close by," said she and, running across the yard, opened a gate in a wooden fence and, stopping, pointed out to him a small wooden wing of the house, which was burning brightly and fiercely. One of its sides had fallen
in, another was on fire, and bright flames
issued from the openings of the windows and from under the roof.

As Pierre passed through the fence gate, he was enveloped by hot air and involuntarily stopped.

"Which is it? Which is your house?" he asked.

"Ooh!" wailed the girl, pointing to the wing. "That's it, that was our lodging. You've burned to death, our treasure, Katie, my precious little missy! Ooh!" lamented Aniska, who at the sight of the fire felt that she too must give expression to her feelings.

Pierre rushed to the wing, but the heat was so great that he involuntarily passed round in a curve and came upon the large house that was as yet burning only at one end, just below the roof, and around which swarmed a crowd of Frenchmen. At first Pierre did not realize what these men, who were dragging something out, were about; but seeing before him a Frenchman hitting a peasant with a blunt saber and trying to take from him a fox-fur coat, he vaguely understood that looting was going
on there, but he had no time to dwell on that idea.

The sounds of crackling and the din of falling walls and ceilings, the whistle and hiss of the flames, the excited shouts of the people, and the sight of the swaying smoke, now gathering into thick black clouds and now soaring up with glittering sparks, with here and there dense sheaves of flame (now red and now like golden fish scales creeping along the walls), and the heat and smoke and rapidity of motion, produced on Pierre the usual animating effects of a conflagration. It had a peculiarly strong effect on him because at the sight of the fire he felt himself suddenly freed from the ideas that had weighed him down. He felt young, bright, adroit, and resolute. He ran round to the other side of the lodge and was about to

dash into that part of it which was still standing, when just above his head he heard several voices shouting and then a cracking sound and the ring of something heavy falling close beside him.

Pierre looked up and saw at a window of the large house some Frenchmen who had just thrown out the drawer of a chest, filled with metal articles. Other French soldiers standing below went up to the drawer.

"What does this fellow want?" shouted one of them referring to Pierre.

"There's a child in that house. Haven't you seen a child?" cried Pierre.

"What's he talking about? Get along!" said several voices, and one of the soldiers, evidently afraid that Pierre might want to take from them some of the plate and bronzes that were in the drawer, moved threateningly toward him.

"A child?" shouted a Frenchman from above. "I did hear something squealing in the garden. Perhaps it's his brat that the fellow is looking for. After all, one must be human, you know...."

"Where is it? Where?" said Pierre.

"There! There!" shouted the Frenchman at the window, pointing to the garden at the back of the house. "Wait a bit--I'm coming down."

And a minute or two later the Frenchman, a black-eyed fellow with a spot on his cheek, in shirt sleeves, really did jump out of a window on the ground floor, and clapping Pierre on the shoulder ran with him into the garden.

"Hurry up, you others!" he called out to his comrades. "It's getting hot."

When they reached a gravel path behind the house the Frenchman pulled Pierre by the arm and pointed to a round, graveled space where a three-year-old girl in a pink dress was lying under a seat.

"There is your child! Oh, a girl, so much the better!" said the Frenchman. "Good-by, Fatty. We must be human, we are all mortal you know!" and the Frenchman with the spot on his cheek ran back to his comrades.

Breathless with joy, Pierre ran to the little girl and was going to take her in his arms. But seeing a stranger the sickly, scrofulous-looking child, unattractively like her mother, began to yell and run away. Pierre, however, seized her and lifted her in his arms. She screamed desperately and angrily and tried with her little hands to pull Pierre's hands away and to bite them with her slobbering mouth. Pierre was seized by a sense of horror and repulsion such as he had experienced when touching some nasty little animal. But he made an effort not to throw the child down and ran with her to the large house. It was now, however, impossible to get back the way he had come; the maid, Aniska, was no longer there, and Pierre with a feeling of pity and disgust pressed the wet, painfully sobbing child to himself as tenderly as he could and ran with her through the garden seeking another way out.

CHAPTER XXXIV

Having run through different yards and side streets, Pierre got back with his little burden to the Gruzinski garden at the corner of the Povarskoy. He did not at first recognize the place from which he had set out to look for the child, so crowded was it now with people and goods that had been dragged out of the houses. Besides Russian families who had taken refuge here from the fire with their belongings, there were several French soldiers in a variety of clothing. Pierre took no notice of them. He hurried to find the family of that civil servant in order to restore the daughter to her mother and go to save someone else. Pierre felt that he had still much to do and to do quickly. Glowing with the heat and from running, he felt at that moment more strongly than ever the sense of youth, animation, and determination that had come on him when he ran to save the child. She had now become quiet and, clinging with her little hands to Pierre's coat, sat on his arm gazing about her like some little wild animal. He glanced at her occasionally with a slight smile. He fancied he saw something pathetically innocent in that frightened, sickly little face.

He did not find the civil servant or his wife where he had left them. He walked among the crowd with rapid steps, scanning the various faces he met. Involuntarily he noticed a Georgian or Armenian family consisting of a very handsome old man of Oriental type, wearing a new, cloth-covered,

sheepskin coat and new boots, an old woman of similar type, and a young woman. That very young woman seemed to Pierre the perfection of Oriental beauty, with her sharply outlined, arched, black eyebrows and the extraordinarily soft, bright color of her long, beautiful, expressionless face. Amid the scattered property and the crowd on the open space, she, in her rich satin cloak with a bright lilac shawl on her head, suggested a delicate exotic plant thrown out onto the snow. She was sitting on some bundles a little behind the old woman, and looked from under her long lashes with motionless, large, almond-shaped eyes at the ground before her. Evidently she was aware of her beauty and fearful because of it. Her face struck Pierre and, hurrying along by the fence, he turned several times to look at her. When he had reached the fence, still without finding those he sought, he stopped and looked about him.

With the child in his arms his figure was now more conspicuous than before, and a group of Russians, both men and women, gathered about him.

"Have you lost anyone, my dear fellow? You're of the gentry yourself, aren't you? Whose child is it?" they asked him.

Pierre replied that the child belonged to a woman in a black coat who had been sitting there with her other children, and he asked whether anyone knew where she had gone.

"Why, that must be the Anferovs," said an old deacon, addressing a pockmarked peasant woman. "Lord have mercy, Lord have mercy!" he added in his customary bass.

"The Anferovs? No," said the woman. "They left in the morning. That must be either Mary Nikolievna's or the Ivanovs'!"

"He says 'a woman,' and Mary Nikolievna is a lady," remarked a house serf.

"Do you know her? She's thin, with long teeth," said Pierre.

"That's Mary Nikolievna! They went inside the garden when these wolves swooped down," said the woman, pointing to the French soldiers.

"O Lord, have mercy!" added the deacon.

"Go over that way, they're there. It's she! She kept on lamenting and crying," continued the woman. "It's she. Here, this way!"

But Pierre was not listening to the woman. He had for some seconds been intently watching what was going on a few steps away. He was looking at the Armenian family and at two French soldiers who had gone up to them. One of these, a nimble little man, was wearing a blue coat tied round the waist with a rope. He had a nightcap on his head and his feet were bare. The other, whose appearance particularly struck Pierre, was a long, lank, round-shouldered, fair-haired man, slow in his movements and with an idiotic expression of face. He wore a woman's loose gown of frieze, blue trousers, and large torn Hessian boots. The little barefooted Frenchman in the blue coat went up to the Armenians and, saying something, immediately seized the old man by his legs and the old man at once began pulling off his boots. The other in the frieze gown stopped in front of the beautiful Armenian girl and with his hands in his pockets stood staring at her, motionless and silent.

"Here, take the child!" said Pierre peremptorily and hurriedly to the woman, handing the little girl to her. "Give her back to them, give her back!" he almost shouted, putting the child, who began screaming, on the ground, and again looking at the Frenchman and the Armenian family.

The old man was already sitting barefoot. The little Frenchman had secured his second boot and was slapping one boot against the other. The old man was saying something in a voice broken by sobs, but Pierre caught but a glimpse of this, his whole attention was directed to the Frenchman in the frieze gown who meanwhile, swaying slowly from side to side, had drawn nearer to the young woman and taking his hands from his pockets had seized her by the neck.

The beautiful Armenian still sat motionless and in the same attitude, with her long lashes drooping as if she did not see or feel what the soldier was doing to her.

While Pierre was running the few steps that separated him from the Frenchman, the tall marauder in the frieze gown was already tearing from her neck the necklace the young Armenian was wearing, and the young woman, clutching at her neck, screamed piercingly.

"Let that woman alone!" exclaimed Pierre hoarsely in a furious voice, seizing the soldier by his round shoulders and throwing him aside.

The soldier fell, got up, and ran away. But his comrade, throwing down the boots and drawing his sword, moved threateningly toward Pierre.

"Voyons, Pas de betises!"* he cried.

*"Look here, no nonsense!"

Pierre was in such a transport of rage that he remembered nothing and his strength increased tenfold. He rushed at the barefooted Frenchman and, before the latter had time to draw his sword, knocked him off his feet and hammered him with his fists. Shouts of approval were heard from the crowd around, and at the same moment a mounted patrol of French Uhlans appeared from round the corner. The Uhlans came up at a trot to Pierre and
the Frenchman and surrounded them.
Pierre remembered nothing of what happened after that. He only remembered beating someone and being beaten and finally feeling that his hands were bound and that a crowd of French soldiers stood around him and were searching him.

"Lieutenant, he has a dagger," were the first words Pierre understood.

"Ah, a weapon?" said the officer and turned to the barefooted soldier who had been arrested with Pierre. "All right, you can tell all about it at the court-martial." Then he turned to Pierre. "Do you speak French?"

Pierre looked around him with bloodshot eyes and did not reply. His face probably looked very terrible, for the officer said something in a whisper and four more Uhlans left the ranks and placed themselves on both sides of Pierre.

"Do you speak French?" the officer asked again, keeping at a distance from Pierre. "Call the interpreter."

A little man in Russian civilian clothes rode out from the ranks, and by his clothes and manner of speaking
Pierre at once knew him to
be a French salesman from one of the Moscow shops.

"He does not look like a common man," said the interpreter, after a searching look at Pierre.

"Ah, he looks very much like an incendiary," remarked the officer. "And ask him who he is," he added.

"Who are you?" asked the interpreter in poor Russian. "You must

answer the chief."

"I will not tell you who I am. I am your prisoner--take me!" Pierre suddenly replied in French.

"Ah, ah!" muttered the officer with a frown. "Well then, march!"

A crowd had collected round the Uhlans. Nearest to Pierre stood the pockmarked peasant woman with the little girl, and when the patrol started she moved forward.

"Where are they taking you to, you poor dear?" said she. "And the little girl, the little girl, what am I to do with her if she's not theirs?" said the woman.

"What does that woman want?" asked the officer.

Pierre was as if intoxicated. His elation increased at the sight of the little girl he had saved.

"What does she want?" he murmured. "She is bringing me my daughter whom I have just saved from the flames," said he. "Good-by!" And without knowing how this aimless lie had escaped him, he went along with resolute and triumphant steps between the French soldiers.

The French patrol was one of those sent out through the various streets of Moscow by Durosnel's order to put a stop to the pillage, and especially to catch the incendiaries who, according to the general opinion which had that day originated among the higher French officers, were the cause of the conflagrations. After marching through a number of streets the patrol arrested five more Russian suspects: a small shopkeeper, two seminary students, a peasant, and a house serf, besides several looters. But of all these various suspected characters, Pierre was considered to be the most suspicious of all. When they had all been brought for the night to a large house on the Zubov Rampart that was being used as a guardhouse, Pierre was placed apart under strict guard.

BOOK TWELVE: 1812

CHAPTER I

In Petersburg at that time a complicated struggle was being carried on with greater heat than ever in the highest circles, between the parties of Rumyantsev, the French, Marya Fedorovna, the Tsarevich, and others, drowned as usual by the buzzing of the court drones. But the calm, luxurious life of Petersburg, concerned only about phantoms and reflections of real life, went on in its old way and made it hard, except by a great effort, to realize the danger and the difficult position of the Russian people. There were the same receptions and balls, the same French theater, the same court interests and service interests and intrigues as usual. Only in the very highest circles were attempts made to keep in mind the difficulties of the actual position. Stories were whispered of how differently the two Empresses behaved in these difficult circumstances. The Empress Marya, concerned for the welfare of the charitable and educational institutions under her patronage, had given directions that they should all be removed to Kazan, and the things belonging to these institutions had already been packed up. The Empress Elisabeth, however, when asked what instructions she would be pleased to give--with her characteristic Russian patriotism had replied that she could give no directions about state institutions for that was the affair of the sovereign, but as far as she personally was concerned she would be the last to quit Petersburg.

At Anna Pavlovna's on the twenty-sixth of August, the very day of the battle of Borodino, there was a soiree, the chief feature of which was to be the reading of a letter from His Lordship the Bishop when sending the Emperor an icon of the Venerable Sergius. It was regarded as a model of ecclesiastical, patriotic eloquence. Prince Vasili himself, famed for his elocution, was to read it. (He used to read at the Empress'.) The art of his reading was supposed to lie in rolling out the words, quite independently of their meaning, in a loud and singsong voice alternating between a despairing wail and a tender murmur, so that the wail fell quite at random on one word and the murmur on another. This reading, as was always the case at Anna Pavlovna's soirees, had a political significance. That evening she expected several important personages who had to be made ashamed of their visits to the French theater and aroused to a patriotic temper. A good many people had already arrived, but Anna Pavlovna, not yet seeing all those whom she wanted in her drawing room, did not let the reading begin but wound up the springs of a general conversation.

The news of the day in Petersburg was the illness of Countess Bezukhova. She had fallen ill unexpectedly a few days previously, had missed several gatherings of which she was usually ornament, and was said to be receiving no one, and instead of the celebrated Petersburg doctors who usually attended her had entrusted herself to some Italian
doctor who was treating her in some new and unusual way.

They all knew very well that the enchanting countess' illness arose from an inconvenience resulting from marrying two husbands at the same time, and that the Italian's cure consisted in removing such inconvenience; but in Anna Pavlovna's presence no one dared to think of this or even appear to know it.

"They say the poor countess is very ill. The doctor says it is angina pectoris."

"Angina? Oh, that's a terrible illness!"

"They say that the rivals are reconciled, thanks to the angina..." and the word angina was repeated with great satisfaction.

"The count is pathetic, they say. He cried like a child when the doctor told him the case was dangerous."

"Oh, it would be a terrible loss, she is an enchanting woman."

"You are speaking of the poor countess?" said Anna Pavlovna, coming up just then. "I sent to ask for news, and hear that she is a little better. Oh, she is certainly the most charming woman in the world," she
went on, with a smile at her own enthusiasm. "We belong to different camps, but that does not prevent my esteeming her as she deserves. She is very unfortunate!" added Anna Pavlovna.

Supposing that by these words Anna Pavlovna was somewhat lifting the veil from the secret of the countess' malady, an unwary young man ventured to express surprise that well known doctors had not been called in and that the countess was being attended by a charlatan who might employ dangerous remedies.

"Your information maybe better than mine," Anna Pavlovna suddenly and venomously retorted on the inexperienced young man, "but I know on good authority that this doctor is a very learned and able man. He is private physician to the Queen of Spain."

And having thus demolished the young man, Anna Pavlovna turned to

another group where Bilibin was talking about the Austrians: having wrinkled up his face he was evidently preparing to smooth it out again and utter one of his mots.

"I think it is delightful,"
he said, referring to a diplomatic
note that had been sent to Vienna with some Austrian banners captured from the French by Wittgenstein, "the hero of Petropol" as he was then called in Petersburg.

"What? What's that?" asked Anna Pavlovna, securing silence for the mot, which she had heard before.

And Bilibin repeated the actual words of the diplomatic dispatch, which he had himself composed.

"The Emperor returns these Austrian banners," said Bilibin, "friendly banners gone astray and found on a wrong path," and his brow became smooth again.

"Charming, charming!" observed Prince Vasili.

"The path to Warsaw, perhaps," Prince Hippolyte remarked loudly and unexpectedly. Everybody looked at him, understanding what he meant. Prince Hippolyte himself glanced around with amused surprise. He knew no more than the others what his words meant. During his diplomatic career he had more than once noticed that such utterances were received as very witty, and at every opportunity he uttered in
that
way the first words that entered his head. "It may turn out very well," he thought, "but if not, they'll know how to arrange matters." And really, during the awkward silence that ensued, that insufficiently patriotic person entered whom Anna Pavlovna had been waiting for and wished to convert, and she, smiling and shaking a finger at Hippolyte, invited Prince Vasili to the table and bringing him two candles and the manuscript begged him to begin. Everyone became silent.

"Most Gracious Sovereign and Emperor!" Prince Vasili sternly declaimed, looking round at his audience as if to inquire whether anyone had anything to say to the contrary. But no one said anything. "Moscow, our ancient capital, the New Jerusalem, receives her Christ"--he placed a sudden emphasis on the word her--"as a mother receives her zealous sons into her arms, and through the gathering mists, foreseeing the brilliant glory of thy rule, sings in exultation, 'Hosanna, blessed is he that cometh!'"

Prince Vasili
pronounced these last words in a tearful voice.

Bilibin attentively examined his nails, and many of those present appeared intimidated, as if asking in what they were to blame. Anna Pavlovna whispered the next words in advance, like an old woman muttering the prayer at Communion: "Let the bold and insolent Goliath..." she whispered.

Prince Vasili continued.

"Let the bold and insolent Goliath from the borders of France encompass the realms of Russia with death-bearing terrors; humble Faith, the sling of the Russian David, shall suddenly smite his head in his blood-thirsty pride. This icon of the Venerable Sergius, the servant of God and zealous champion of old of our country's weal, is offered to Your Imperial Majesty. I grieve that my waning strength prevents rejoicing in the sight of your most gracious presence. I raise fervent prayers to Heaven that the Almighty may exalt the race of the just, and mercifully fulfill the desires of Your Majesty."

"What force! What a style!" was
uttered in approval both of reader
and of author.

Animated by that address Anna Pavlovna's guests talked for a long time of the state of the fatherland and offered various conjectures as to the result of the battle to be fought in a few days.

"You will see," said Anna Pavlovna, "that tomorrow, on the Emperor's birthday, we shall receive news. I have a favorable presentiment!"

CHAPTER II

Anna Pavlovna's presentiment was in fact fulfilled. Next day during the service at the palace church in honor of the Emperor's birthday, Prince Volkonski was called out of the church and received a dispatch from Prince Kutuzov. It was Kutuzov's report, written from Tatarinova on the day of the battle. Kutuzov wrote that the Russians had not retreated a step, that the French losses were much heavier

than ours, and that he was writing in haste from the field of battle before collecting full information. It followed that there must have been a victory. And at once, without leaving the church, thanks were rendered to the Creator for His help and for the victory.

Anna Pavlovna's presentiment was justified, and all that morning a joyously festive mood reigned in the city. Everyone believed the victory to have been complete, and some even spoke of Napoleon's having been captured, of his deposition, and of the choice of a new ruler for France.

It is very difficult for events to be reflected in their real strength and completeness amid the conditions of court life and far from the scene of action. General events involuntarily group themselves around some particular incident. So now the courtiers' pleasure was based as much on the fact that the news had arrived on the Emperor's birthday as on the fact of the victory itself. It was like a successfully arranged surprise. Mention was made in Kutuzov's report of the Russian losses, among which figured the names of Tuchkov, Bagration, and Kutaysov. In the Petersburg world this sad side of the affair again involuntarily centered round a single incident: Kutaysov's death. Everybody knew him, the Emperor liked him, and he was young and interesting. That day everyone met with the words:

"What a wonderful coincidence! Just during the service. But what a loss Kutaysov is! How sorry I am!"

"What did I tell about Kutuzov?" Prince Vasili now said with a prophet's pride. "I always said he was the only man capable of defeating Napoleon."

But next day no news arrived from the army and the public mood grew anxious. The courtiers suffered because of the suffering the suspense occasioned the Emperor.

"Fancy the Emperor's position!" said they, and instead of extolling Kutuzov as they had done the day before, they condemned him as the cause of the Emperor's anxiety. That day Prince Vasili no longer boasted of his protege Kutuzov, but remained silent when the commander in chief was mentioned. Moreover, toward evening, as if everything conspired to make Petersburg society anxious and uneasy, a terrible piece of news was added. Countess Helene Bezukhova had suddenly died of that terrible malady it had been so agreeable to mention. Officially, at large gatherings, everyone said that

Countess Bezukhova had died of a terrible attack of angina pectoris, but in intimate circles details were mentioned of how the private physician of the Queen of Spain had prescribed small doses of a certain drug to produce a certain effect; but Helene, tortured by the fact that the old count suspected her and that her husband to whom she had written (that wretched, profligate Pierre) had not replied, had suddenly taken a very large dose of the drug, and had died in agony before assistance could be rendered her. It was said that Prince Vasili and the old count had turned upon the Italian, but the latter had produced such letters from the unfortunate deceased that they had immediately let the matter drop.

Talk in general centered round three melancholy facts: the Emperor's lack of news, the loss of Kutuzov, and the death of Helene.

On the third day after Kutuzov's report a country gentleman arrived from Moscow, and news of the surrender of Moscow to the French spread through the whole town. This was terrible! What a position for the Emperor to be in! Kutuzov was a traitor, and Prince Vasili during the visits of condolence paid to him on the occasion of his daughter's death said of Kutuzov, whom he had formerly praised (it was excusable for him in his grief to forget what he had said), that it was impossible to expect anything else from a blind and depraved old man.

"I only wonder that the fate of Russia could have been entrusted to such a man."

As long as this news remained unofficial it was possible to doubt it, but the next day the following communication was received from Count Rostopchin:

Prince Kutuzov's adjutant has brought me a letter in which he demands police officers to guide the army to the Ryazan road. He writes that he is regretfully abandoning Moscow. Sire! Kutuzov's action decides the fate of the capital and of your empire! Russia will shudder to learn of the abandonment of the city in which her greatness is centered and in which lie the ashes of your ancestors! I shall follow the army. I have had everything removed, and it only remains for me to weep over the fate of my fatherland.

On receiving this dispatch the Emperor sent Prince Volkonski to Kutuzov with the following rescript:

Prince Michael Ilarionovich! Since the twenty-ninth of August I have received no communication from you, yet on the first of September I received from the commander in chief of Moscow, via Yaroslavl, the sad news that you, with the army, have decided to abandon Moscow. You can yourself imagine the effect this news has had on me, and your silence increases my astonishment. I am sending this by Adjutant-General Prince Volkonski, to hear from you the situation of the army and the reasons that have induced you to take this melancholy decision.

CHAPTER III

Nine days after the abandonment of Moscow, a messenger from Kutuzov reached Petersburg with the official announcement of that event. This messenger was Michaud, a Frenchman who did not know Russian, but who was quoique etranger, russe de coeur et d'ame,* as he said of himself.

*Though a foreigner, Russian in heart and soul.

The Emperor at once received this messenger in his study at the palace on Stone Island. Michaud, who had never seen Moscow before the campaign and who did not know Russian, yet felt deeply moved (as he wrote) when he appeared before notre tres gracieux souverain* with the news of the burning of Moscow, dont les flammes eclairaient sa route.*[2]

*Our most gracious sovereign.

*[2] Whose flames illumined his route.

Though the source of M. Michaud's chagrin must have been different from that which caused Russians to grieve, he had such a sad face when shown into the Emperor's study that the latter at once asked:

"Have you brought me sad news, Colonel?"

"Very sad, sire," replied Michaud, lowering his eyes with a sigh.
"The abandonment of Moscow."

"Have they surrendered my ancient capital without a battle?" asked the Emperor quickly, his face suddenly flushing.

Michaud respectfully delivered the message Kutuzov had entrusted to him, which was that it had been impossible to fight before Moscow, and that as the only remaining choice was between losing the army as well as Moscow, or losing Moscow alone, the field marshal had to choose the latter.

The Emperor listened in silence, not looking at Michaud.

"Has the enemy entered the city?" he asked.

"Yes, sire, and Moscow is now in ashes. I left it all in flames," replied Michaud in a decided tone, but glancing at the Emperor he was frightened by what he had done.

The Emperor began to breathe heavily and rapidly, his lower lip trembled, and tears instantly appeared in his fine blue eyes.

But this lasted only a moment. He suddenly frowned, as if blaming himself for his weakness, and raising his head addressed Michaud in a firm voice:

"I see, Colonel, from all that is happening, that Providence requires great sacrifices of us... I am ready to submit myself in all things to His will; but tell me, Michaud, how did you leave the army when it saw my ancient capital abandoned without a battle? Did you not notice discouragement?..."

Seeing that his most gracious ruler was calm once more, Michaud also grew calm, but was not immediately ready to reply to the Emperor's direct and relevant question which required a direct answer.

"Sire, will you allow me to speak frankly as befits a loyal soldier?" he asked to gain time.

"Colonel, I always require it," replied the Emperor. "Conceal nothing from me, I wish to know absolutely how things are."

"Sire!" said Michaud with a subtle, scarcely perceptible smile on his lips, having now prepared a well-phrased reply, "sire, I left the whole army, from its chiefs to the lowest soldier, without

exception in desperate and agonized terror..."

"How is that?" the Emperor interrupted
him, frowning sternly. "Would
misfortune make my Russians lose heart?... Never!"

Michaud had only waited for this to bring out the phrase he had
prepared.

"Sire," he said, with respectful playfulness, "they are only
afraid lest Your Majesty, in the goodness of your heart, should
allow yourself to be persuaded to make peace. They are burning for the
combat," declared this representative of the Russian nation, "and to
prove to Your Majesty by the sacrifice of their lives how devoted they
are...."

"Ah!" said the Emperor reassured, and with a kindly gleam in his
eyes, he patted Michaud on the shoulder. "You set me at ease,
Colonel."

He bent his head and was silent for some time.

"Well, then, go back to the army," he said, drawing himself up to
his full height and addressing Michaud with a gracious and majestic
gesture, "and tell our brave men and all my good subjects wherever you
go that when I have not a soldier left I shall put myself at the
head of my beloved nobility and my good
peasants and so use the last
resources of my empire. It still offers me more than my enemies
suppose," said the Emperor growing more and more animated; "but should
it ever be ordained by Divine Providence," he continued, raising to
heaven his fine eyes shining with emotion, "that my dynasty should
cease to reign on the throne of my ancestors, then after exhausting
all the means at my command, I shall let my beard grow to here" (he
pointed halfway down his chest) "and go and eat potatoes with the
meanest of my peasants, rather than sign the disgrace of my country
and of my beloved people whose sacrifices I know how to appreciate."

Having uttered these words in an agitated voice the Emperor suddenly
turned away as if to hide from Michaud the tears that rose to his
eyes, and went to the further end of his study. Having stood there a
few moments, he strode back to Michaud and pressed his arm below the
elbow with a vigorous movement. The Emperor's mild and handsome face
was flushed and his
eyes gleamed with resolution and anger.

"Colonel Michaud, do not forget what I say to you here, perhaps we
may recall it with pleasure someday... Napoleon or I," said the

Emperor, touching his breast. "We can no longer both reign together. I have learned to know him, and he will not deceive me any more...."

And the Emperor paused, with a frown.

When he heard these words and saw the expression of firm resolution in the Emperor's eyes, Michaud--quoique etranger, russe de coeur et d'ame--at that solemn moment felt himself enraptured by all that he had heard (as he used afterwards to say), and gave expression to his own feelings and those of the Russian people whose representative he considered himself to be, in the following words:

"Sire!" said he, "Your Majesty is at this moment signing the glory of the nation and the salvation of Europe!"

With an inclination of the head the Emperor dismissed him.

CHAPTER IV

It is natural for us who were not living in those days to imagine that when half Russia had been conquered and the inhabitants were fleeing to distant provinces, and one levy after another was being raised for the defense of the fatherland, all Russians from the greatest to the least were solely engaged in sacrificing themselves, saving their fatherland, or weeping over its downfall. The tales and descriptions of that time without exception speak only of the self-sacrifice, patriotic devotion, despair, grief, and the heroism of the Russians. But it was not really so. It appears so to us because we see only the general historic interest of that time and do not see all the personal human interests that people had. Yet in reality those personal interests of the moment so much transcend the general interests that they always prevent the public interest from being felt or even noticed. Most of the people at that time paid no attention to the general progress of events but were guided only by their private interests, and they were the very people whose activities at that period were most useful.

Those who tried to understand the general course of events and to take part in it by self-sacrifice and heroism were the most useless members of society, they saw everything upside down, and all they did for the common good turned out to be useless and foolish--like

Pierre's and Mamonov's regiments which looted Russian villages, and the lint the young ladies prepared and that never reached the wounded, and so on. Even those, fond of intellectual talk and of expressing their feelings, who discussed Russia's position at the time involuntarily introduced into their conversation either a shade of pretense and falsehood or useless condemnation and anger directed against people accused of actions no one could possibly be guilty of. In historic events the rule forbidding us to eat of the fruit of the Tree of Knowledge is specially applicable. Only unconscious action bears fruit, and he who plays a part in an historic event never understands its significance.
If he tries to realize it his efforts
are fruitless.

The more closely a man was engaged in the events then taking place in Russia the less did he realize their significance. In Petersburg and in the provinces at a distance from Moscow, ladies, and gentlemen in militia uniforms, wept for Russia and its ancient capital and talked of self-sacrifice and so on; but in the army which retired beyond Moscow there was little talk or thought of Moscow, and when they caught sight of its burned ruins no one swore to be avenged on the French, but they thought about their next pay, their next quarters, of Matreshka the vivandiere, and like matters.

As the war had caught him in the service, Nicholas Rostov took a close and prolonged part in the defense of his country, but did so casually, without any aim at self-sacrifice, and he therefore looked at what was going on in Russia without despair and without dismally racking his brains over it. Had he been asked what he thought of the state of Russia,
he would have said that it was not his business to
think about it, that Kutuzov and others were there for that purpose, but that he had heard that the regiments were to be made up to their full strength, that fighting would probably go on for a long time yet, and that things being so it was quite likely he might be in command of a regiment in a couple of years' time.

As he looked at the matter in this way, he learned that he was being sent to Voronezh to buy remounts for his division, not only without regret at being prevented from taking part in the coming battle, but with the greatest pleasure--which he did not conceal and which his comrades fully understood.

A few days before the battle of Borodino, Nicholas received the necessary money and warrants, and having sent some hussars on in advance, he set out with post horses for Voronezh.

Only a man who has experienced it--that is, has passed some months

continuously in an atmosphere of campaigning and war--can understand the
delight Nicholas felt when he escaped from the region covered by the army's foraging operations, provision trains, and hospitals. When-free from soldiers, wagons, and the filthy traces of a camp--he saw villages with peasants and peasant women, gentlemen's country houses, fields where cattle were grazing, posthouses with stationmasters asleep in them, he rejoiced as though seeing all this for the first time. What for a long while specially surprised and delighted him were the women, young and healthy, without a dozen officers making up to each of them; women, too, who were pleased and flattered that a passing officer should joke with them.

In the highest spirits Nicholas arrived at night at a hotel in Voronezh, ordered things he had long been deprived of in camp, and next day, very clean-shaven and in a full-dress uniform he had not worn for a long time, went to present himself to the authorities.

The commander of the militia was a civilian general, an old man who was evidently pleased
with his military designation and rank. He
received Nicholas brusquely (imagining this to be characteristically military) and questioned him with an important air, as if considering the general progress of affairs and approving and disapproving with full right to do so. Nicholas was in such good spirits that this merely amused him.

From the commander of the militia he drove to the governor. The governor was a brisk little man, very simple and affable. He indicated the stud farms at which Nicholas might procure horses, recommended to him a horse dealer in the town and a landowner fourteen miles out of town who had the best horses, and promised to assist him in every way.

"You are Count Ilya Rostov's son? My wife was a great friend of your mother's. We are at home on Thursdays--today is Thursday, so please come and see us quite informally," said the governor, taking leave of him.

Immediately on leaving the governor's, Nicholas hired post horses and, taking his squadron quartermaster
with him, drove at a gallop
to the landowner, fourteen miles away, who had the stud. Everything seemed to him pleasant and easy during that first part of his stay in Voronezh and, as usually happens when a man is in a pleasant state of mind, everything went well and easily.

The landowner to whom Nicholas went was a bachelor, an old

cavalryman, a horse fancier, a sportsman, the possessor of some century-old brandy and some old Hungarian wine, who had a snuggery where he smoked, and who owned some splendid horses.

In very few words Nicholas bought seventeen picked stallions for six thousand rubles--to serve, as he said, as samples of his remounts. After dining and taking rather too much of the Hungarian wine, Nicholas--having exchanged kisses with the landowner, with whom he was already on the friendliest terms--galloped back over abominable roads, in the brightest frame of mind, continually urging on the driver so as to be in time for the governor's party.

When he had changed, poured water over his head, and scented himself, Nicholas arrived at the governor's rather late, but with the phrase "better late than never" on his lips.

It was not a ball, nor had dancing been announced, but everyone knew that Catherine Petrovna would play valses and the ecossaise on the clavichord and that there would be dancing, and so everyone had come as to a ball.

Provincial life in 1812 went on very much as usual, but with this difference, that it was livelier in the towns in consequence of the arrival of many wealthy families from Moscow, and as in everything that went on in Russia at that time a special recklessness was noticeable, an "in for a penny, in for a pound--who cares?" spirit, and the inevitable small talk, instead of turning on the weather and mutual acquaintances, now turned on Moscow, the army, and Napoleon.

The society gathered together at the governor's was the best in Voronezh.

There were a great many ladies and some of Nicholas' Moscow acquaintances, but there were no men who could at all vie with the cavalier of St. George, the hussar remount officer, the good-natured and well-bred Count Rostov. Among the men was an Italian prisoner, an officer of the French army; and Nicholas felt that the presence of that prisoner enhanced his own importance as a Russian hero. The Italian was, as it were, a war trophy. Nicholas felt this, it seemed to him that everyone regarded the Italian in the same light, and he treated him cordially though with dignity and restraint.

As soon as Nicholas entered in his hussar uniform, diffusing around him a fragrance of perfume and wine, and had uttered the words "better late than never" and heard them repeated several times by others, people clustered around him; all eyes turned on him, and he

felt at once that he had entered into his proper position in the province--that of a universal favorite: a very pleasant position, and intoxicatingly so after his long privations. At posting stations, at inns, and in the landowner's snuggery, maidservants had been flattered by his notice, and here too at the governor's party there were (as it seemed to Nicholas) an inexhaustible number of pretty young women, married and unmarried, impatiently awaiting his notice. The women and girls flirted with him and, from the first day, the people concerned themselves to get this fine young daredevil of an hussar married and settled down. Among these was the governor's wife herself, who welcomed Rostov as a near relative and called him "Nicholas."

Catherine Petrovna did actually play valses and the ecossaise, and dancing began in which Nicholas still further captivated the provincial society by his agility. His particularly free manner of dancing even surprised them all. Nicholas was himself rather surprised at the way he danced that evening. He had never danced like that in Moscow and would even have considered such a very free and easy manner improper and in bad form, but here he felt it incumbent on him to astonish them all by something unusual, something they would have to accept as the regular thing in the capital though new to them in the provinces.

All the evening Nicholas paid attention to a blue-eyed, plump and pleasing little blonde, the wife of one of the provincial officials. With the naive conviction of young men in a merry mood that other men's wives were created for them, Rostov did not leave the lady's side and treated her husband in a friendly and conspiratorial style, as if, without speaking of it, they knew how capitally Nicholas and the lady would get on together. The husband, however, did not seem to share that conviction and tried to behave morosely with Rostov. But the latter's good-natured naivete was so boundless that sometimes even he involuntarily yielded to Nicholas' good humor. Toward the end of the evening, however, as the wife's face grew more flushed and animated, the husband's became more and more melancholy and solemn, as though there were but a given amount of animation between them and as the wife's share increased the husband's diminished.

CHAPTER V

Nicholas sat leaning slightly forward in an armchair, bending closely over the blonde lady and paying her mythological compliments with a smile that never left his face. Jauntily shifting the position of his legs in their tight riding breeches, diffusing an odor of perfume, and admiring his partner, himself, and the fine outlines of his legs in their well-fitting Hessian boots, Nicholas told the blonde lady that he wished to run away with a certain lady here in Voronezh.

"Which lady?"

"A charming lady, a divine one. Her eyes" (Nicholas looked at his partner) "are blue, her mouth coral and ivory; her figure" (he glanced at her shoulders) "like Diana's...."

The husband came up and sullenly asked his wife what she was talking about.

"Ah, Nikita Ivanych!" cried Nicholas, rising politely, and as if wishing Nikita Ivanych to share his joke, he began to tell him of his intention to elope with
a blonde lady.

The husband smiled gloomily, the wife gaily. The governor's good-natured wife came up with a look of disapproval.

"Anna Ignatyevna wants to see you, Nicholas," said she, pronouncing the name so that Nicholas at once understood that Anna Ignatyevna was a very important person. "Come, Nicholas! You know you let me call you so?"

"Oh, yes, Aunt. Who is she?"

"Anna Ignatyevna Malvintseva. She has heard from her niece how you rescued her... Can you guess?"

"I rescued such a lot of them!" said Nicholas.

"Her niece, Princess Bolkonskaya. She is here in Voronezh with her aunt. Oho! How you blush. Why, are...?"

"Not a bit! Please don't, Aunt!"

"Very well, very well!... Oh, what a fellow you are!"

The governor's wife led him up to a tall and very stout old lady with a blue headdress, who had just finished her game of cards with

the most important personages of the town. This was Malvintseva, Princess Mary's aunt on her mother's side, a rich, childless widow who always lived
in Voronezh. When Rostov approached her she was
standing settling up for the game. She looked at him and, screwing up her eyes sternly, continued to upbraid the general who had won from her.

"Very pleased, mon cher," she then said, holding out her hand to Nicholas. "Pray come and see me."

After a few words about Princess Mary and her late father, whom Malvintseva had evidently not liked, and having asked what Nicholas knew of Prince Andrew, who also was evidently no favorite of hers, the important old lady dismissed Nicholas after repeating her invitation to come to see her.

Nicholas promised to come and blushed again as he bowed. At the mention of Princess Mary he experienced a feeling of shyness and even of fear, which he himself did not understand.

When he had parted from Malvintseva Nicholas wished to return to the dancing, but the governor's little wife placed her plump hand on his sleeve and, saying that she wanted to have a talk with him, led him to her sitting room, from
which those who were there immediately withdrew
so as not to be in her way.

"Do you know, dear boy," began the governor's wife with a serious expression on her kind little face, "that really would be the match for you: would you like me to arrange it?"

"Whom do you mean, Aunt?" asked Nicholas.

"I will make a match for you with the princess. Catherine Petrovna speaks of Lily, but I say, no--the princess! Do you want me to do it? I am sure your mother will be grateful to me. What a charming girl she is, really! And she is not at all so plain, either."

"Not at all," replied Nicholas as if offended at the idea. "As befits a soldier, Aunt, I don't force myself on anyone or refuse anything," he said before he had time to consider what he was saying.

"Well then, remember, this is not a joke!"

"Of course not!"

"Yes, yes," the governor's wife said as if talking to herself. "But,

my dear boy, among other things you are too attentive to the other, the blonde. One is sorry for the husband, really...."

"Oh no, we are good friends with him," said Nicholas in the simplicity of his heart; it did not enter his head that a pastime so pleasant to himself might not be pleasant to someone else.

"But what nonsense I have been saying to the governor's wife!" thought Nicholas suddenly at supper. "She will really begin to arrange a match... and Soyna...?" And on taking leave of the governor's wife, when she again smilingly said to him, "Well then, remember!" he drew her aside.

"But see here, to tell the truth, Aunt..."

"What is it, my dear? Come, let's sit down here," said she.

Nicholas suddenly felt a desire and need to tell his most intimate thoughts (which he would not have told to his mother, his sister, or his friend) to this woman who was almost a stranger. When he afterwards recalled that impulse to unsolicited and inexplicable frankness which had very important results for him, it seemed to him--as it seems to everyone in such cases--that it was merely some silly whim that seized him: yet that burst of frankness, together with other trifling events, had immense consequences for him and for all his family.

"You see, Aunt, Mamma has long wanted me to marry an heiress, but the very idea of marrying for money is repugnant to me."

"Oh yes, I understand," said the governor's wife.

"But Princess Bolkonskaya--that's another matter. I will tell you the truth. In the first place I like her very much, I feel drawn to her; and then, after I met her under such circumstances--so strangely, the idea often occurred to me: 'This is fate.' Especially if you remember that Mamma had long been thinking of it; but I had never happened to meet her before, somehow it had always happened that we did not meet. And as long as my sister Natasha was engaged to her brother it was of course out of the question for me to think of marrying her. And it must needs happen that I should meet her just when Natasha's engagement had been broken off... and then everything... So you see... I never told this to anyone and never will, only to you."

The governor's wife pressed his elbow gratefully.

"You know Sonya, my cousin? I love her, and promised to marry her, and will do so.... So you see there can be no question about-" said Nicholas incoherently and blushing.

"My dear boy, what a way to look at it! You know Sonya has nothing and you yourself say your Papa's affairs are in a very bad way. And what about your mother? It would kill her, that's one thing. And what sort of life would it be for Sonya--if she's a girl with a heart? Your mother in despair, and you all ruined.... No, my dear, you and Sonya ought to understand that."

Nicholas remained silent. It comforted him to hear these arguments.

"All the same, Aunt, it is impossible," he rejoined with a sigh, after a short pause. "Besides, would the princess have me? And besides, she is now in mourning. How can one think of it!"

"But you don't suppose I'm going to get you married at once? There is always a right
way of doing things," replied the governor's wife.

"What a matchmaker you are, Aunt..." said Nicholas, kissing her plump little hand.

CHAPTER VI

On reaching Moscow after her meeting with Rostov, Princess Mary had found her nephew there with his tutor, and a letter from Prince Andrew giving her instructions how to get to her Aunt Malvintseva at Voronezh. That feeling akin to temptation which had tormented her during her father's illness, since his death, and especially since her meeting with Rostov was smothered by arrangements for the journey, anxiety about her brother, settling in a new house, meeting new people, and attending to her nephew's education. She was sad. Now, after a month passed in quiet surroundings, she felt more and more deeply the loss of her father which was associated in her mind with the ruin of Russia. She was agitated and incessantly tortured by the thought of the dangers to which her brother, the only intimate person now remaining to her, was exposed. She
was worried too about
her nephew's education for which she had always felt herself

incompetent, but in the depths of her soul she felt at peace--a peace arising from consciousness of having stifled those personal dreams and hopes that had been on the point of awakening within her and were related to her meeting with Rostov.

The day after her party the governor's wife came to see Malvintseva and, after discussing her plan with the aunt, remarked that though under present circumstances a formal betrothal was, of course, not to be thought of, all the same the young people might be brought together and could get to know one another. Malvintseva expressed approval, and the governor's wife began to speak of Rostov in Mary's presence, praising him and telling how he had blushed when Princess Mary's name was mentioned. But Princess Mary experienced a painful rather than a joyful feeling--her mental tranquillity was destroyed, and desires, doubts, self-reproach, and hopes reawoke.

During the two days that elapsed before Rostov called, Princess Mary continually thought of how she ought to behave to him. First she decided not to come to the drawing room when he called to see her aunt--that it would not be proper for her, in her deep mourning, to receive visitors; then she thought this would be rude after what he had done for her; then it occurred to her that her aunt and the governor's wife had intentions concerning herself and Rostov--their looks and words at times seemed to confirm this supposition--then she told herself that only she, with her sinful nature, could think this of them: they could not forget that situated as she was, while still wearing deep mourning, such matchmaking would be an insult to her and to her father's memory. Assuming that she did go down to see him, Princess Mary imagined the words he would say to her and what she would say to him, and these words sometimes seemed undeservedly cold and then to mean too much. More than anything she feared lest the confusion she felt might overwhelm her and betray her as soon as she saw him.

But when on Sunday after church the footman announced in the drawing room that Count Rostov had called, the princess showed no confusion, only a slight blush suffused her cheeks and her eyes lit up with a new and radiant light.

"You have met him, Aunt?" said she in a calm voice, unable herself to understand that she could be outwardly so calm and natural.

When Rostov entered the room, the princess dropped her eyes for an instant, as if to give the visitor time to greet her aunt, and then just as Nicholas turned to her she raised her head and met his look with shining eyes. With a movement full of dignity and grace she

half rose with a smile of pleasure, held out her slender, delicate hand to him, and began to speak in a voice in which for the first time new deep womanly notes vibrated. Mademoiselle Bourienne, who was in the drawing room, looked at Princess Mary in bewildered surprise. Herself a consummate coquette, she could not have maneuvered better on meeting a man she wished to attract.

"Either black is particularly becoming to her or she really has greatly improved without my having noticed it. And above all, what tact and grace!" thought Mademoiselle Bourienne.

Had Princess Mary been capable of reflection at that moment, she would have been more surprised than Mademoiselle Bourienne at the change that had taken place in herself. From the moment she recognized that dear, loved face, a new life force took possession of her and compelled her to speak and act apart from her own will. From the time Rostov entered, her face became suddenly transformed. It was as if a light had been kindled in a carved and painted lantern and the intricate, skillful, artistic work on its sides, that previously seemed dark, coarse, and meaningless, was suddenly shown up in unexpected and striking beauty. For the first time all that pure, spiritual, inward travail through which she had lived appeared on the surface. All her inward labor, her dissatisfaction with herself, her sufferings, her strivings after goodness, her meekness, love, and self-sacrifice--all this now shone in those radiant eyes, in her delicate smile, and in every trait of her gentle face.

Rostov saw all this as clearly as if he had known her whole life. He felt that the being before him was quite different from, and better than, anyone he had met before, and above all better than himself.

Their conversation was very simple and unimportant. They spoke of the war, and like everyone else unconsciously exaggerated their sorrow about it; they spoke of their last meeting--Nicholas trying to change the subject--they talked of the governor's kind wife, of Nicholas' relations, and of Princess Mary's.

She did not talk about her brother, diverting the conversation as soon as her aunt mentioned Andrew. Evidently she could speak of Russia's misfortunes with a certain artificiality, but her brother was too near her heart and she neither could nor would speak lightly of him. Nicholas noticed this, as he noticed every shade of Princess Mary's character with an observation unusual to him, and everything confirmed his conviction that she was a quite unusual and extraordinary being. Nicholas blushed and was confused when people

spoke to him about the princess (as she did when he was mentioned) and even when he thought of her, but in her presence he felt quite at ease, and said not at all what he had prepared, but what, quite appropriately, occurred to him at the moment.

When a pause occurred during his short visit, Nicholas, as is usual when there are children, turned to Prince Andrew's little son, caressing him and asking whether he would like to be an hussar. He took the boy on his knee, played with him, and looked round at Princess Mary. With a softened, happy, timid look she watched the boy she loved in the arms of the man she loved. Nicholas also noticed that look and, as if understanding it, flushed with pleasure and began to kiss the boy with good natured playfulness.

As she was in mourning Princess Mary did not go out into society, and Nicholas did not think it the proper thing to visit her again; but all the same the governor's wife went on with her matchmaking, passing on to Nicholas the flattering things Princess Mary said of him and vice versa, and insisting on his declaring himself to Princess Mary. For this purpose she arranged a meeting between the young people at the bishop's house before Mass.

Though Rostov told the governeor's wife that he would not make any declaration to Princess Mary, he promised to go.

As at Tilsit Rostov had not allowed himself to doubt that what everybody considered right was right, so now, after a short but sincere struggle between his effort to arrange his life by his own sense of justice, and in obedient submission to circumstances, he chose the latter and yielded to the power he felt irresistibly carrying him he knew not where. He knew that after his promise to Sonya it would be what he deemed base to declare his feelings to Princess Mary. And he knew that he would never act basely. But he also knew (or rather felt at the bottom of his heart) that by resigning himself now to the force of circumstances and to those who were guiding him, he was not only doing nothing wrong, but was doing something very important--more important than anything he had ever done in his life.

After meeting Princess Mary, though the course of his life went on externally as before, all his former amusements lost their charm for him and he often thought about her. But he never thought about her as he had thought of all the young ladies without exception whom he had met in society, nor as he had for a long time, and at one time rapturously, thought about Sonya. He had pictured each of those young ladies as almost all honest-hearted young men do, that is, as

a possible wife, adapting her in his imagination to all the conditions of married life: a white dressing gown, his wife at the tea table, his wife's carriage, little ones, Mamma and Papa, their relations to her, and so on--and these pictures of the future had given him pleasure. But with Princess Mary, to whom they were trying to get him engaged, he could never picture anything of future married life. If he tried, his pictures seemed incongruous and false. It made him afraid.

CHAPTER VII

The dreadful news of the battle of Borodino, of our losses in killed and wounded, and the still more terrible news of the loss of Moscow reached Voronezh in the middle of September. Princess Mary, having learned of her brother's wound only from the Gazette and having no definite news of him, prepared (so Nicholas heard, he had not seen her again himself) to set off in search of Prince Andrew.

When he received the news of the battle of Borodino and the abandonment of Moscow, Rostov was not seized with despair, anger, the desire for vengeance, or any feeling of that kind, but everything in Voronezh suddenly seemed to him dull and tiresome, and he experienced an indefinite feeling of shame and awkwardness. The conversations he heard seemed to him insincere; he did not know how to judge all these affairs and felt that only in the regiment would everything again become clear to him. He made haste to finish buying the horses, and often became unreasonably angry with his servant and squadron quartermaster.

A few days before his departure a special thanksgiving, at which Nicholas was present, was held in the cathedral for the Russian victory. He stood a little behind the governor and held himself with military decorum through the service, meditating on a great variety of subjects. When the service was over the governor's wife beckoned him to her.

"Have you seen the princess?" she asked, indicating with a movement of her head a lady standing on the opposite side, beyond the choir.

Nicholas immediately recognized Princess Mary not so much by the

profile he saw under her
bonnet as by the feeling of solicitude,
timidity, and pity that immediately overcame him. Princess Mary,
evidently engrossed by her thoughts, was crossing herself for the last
time before leaving the church.

Nicholas looked at her face with surprise. It was the same face he
had seen before, there was the same general expression of refined,
inner, spiritual labor, but now it was quite differently lit up. There
was a pathetic expression of sorrow, prayer, and hope in it. As had
occurred before when she was present, Nicholas went up to her
without waiting to be prompted by the governor's wife and not asking
himself whether or not it was right and proper to address her here
in church, and told her he had heard of her trouble and sympathized
with his whole soul. As soon as she heard his voice a vivid glow
kindled in her face, lighting up both her sorrow and her joy.

"There is one thing I wanted to tell you, Princess," said Rostov.
"It is that if your brother, Prince Andrew Nikolievich, were
not
living, it would have been at once announced in the Gazette, as he
is a colonel."

The princess looked at him, not grasping what he was saying, but
cheered by the expression of regretful sympathy on his face.

"And I have known so many cases of a splinter wound" (the Gazette
said it was a shell) "either proving fatal at once or being very
slight," continued Nicholas. "We must hope for the best, and I am
sure..."

Princess Mary interrupted him.

"Oh, that would be so dread..." she began and, prevented by
agitation from finishing, she bent her head with a movement as
graceful as everything she did in his presence and, looking up at
him gratefully, went out, following her aunt.

That evening Nicholas did not go out, but stayed at home to settle
some accounts with the horse dealers. When he had finished that
business it was already too late to go anywhere but still too early to
go to bed, and for a long time he paced up and down the room,
reflecting on his life, a thing he rarely did.

Princess
Mary had made an agreeable impression on him when he had
met her in Smolensk province. His having encountered her in such
exceptional circumstances, and his mother having at one time mentioned

her to him as a good match, had drawn his particular attention to her. When he met her again in Voronezh the impression she made on him was not merely pleasing but powerful. Nicholas had been struck by the peculiar moral beauty he observed in her at this time. He was, however, preparing to go away and it had not entered his head to regret that he was thus depriving himself of chances of meeting her. But that day's encounter in church had, he felt, sunk deeper than was desirable for his peace of mind. That pale, sad, refined face, that radiant look, those gentle graceful gestures, and especially the deep and tender sorrow expressed in all her features agitated him and evoked his sympathy. In men Rostov could not bear to see the expression of a higher spiritual life (that was why he did not like Prince Andrew) and he referred to it contemptuously as philosophy and dreaminess, but in Princess Mary that very sorrow which revealed the depth of a whole spiritual world foreign to him was an irresistible attraction.

"She must be a wonderful woman. A real angel!" he said to himself. "Why am I not free? Why was I in such a hurry with Sonya?" And he involuntarily compared the two: the lack of spirituality in the one and the abundance of it in the other--a spirituality he himself lacked and therefore valued most highly. He tried to picture what would happen were he free. How he would propose to her and how she would become his wife. But no, he could not imagine that. He felt awed, and no clear picture presented itself to his mind. He had long ago pictured to himself a future with Sonya, and that was all clear and simple just because it had all been thought out and he knew all there was in Sonya, but it was impossible to picture a future with Princess Mary, because he did not understand her but simply loved her.

Reveries about Sonya had had something merry and playful in them, but to dream of Princess Mary was always difficult and a little frightening.

"How she prayed!" he thought. "It was plain that her whole soul was in her prayer. Yes, that was the prayer that moves mountains, and I am sure her prayer will be answered. Why don't I pray for what I want?" he suddenly thought. "What do I want? To be free, released from Sonya... She was right," he thought, remembering what the governor's wife had said: "Nothing but misfortune can come of marrying Sonya. Muddles, grief for Mamma... business difficulties... muddles, terrible muddles! Besides, I don't love her--not as I should. O, God! release me from this dreadful, inextricable position!" he suddenly began to pray. "Yes, prayer can move mountains, but one must have faith and not pray as Natasha and I used to as children, that the snow might turn into sugar--and then run out into the yard to see whether it had

done
so. No, but I am not praying for trifles now," he thought as he put his pipe down in a corner, and folding his hands placed himself before the icon. Softened by memories of Princess Mary he began to pray as he had not done for a long time. Tears were in his eyes and in his throat when the door opened and Lavrushka came in with some papers.

"Blockhead! Why do you come in without being called?" cried Nicholas, quickly changing his attitude.

"From the governor," said Lavrushka in a sleepy voice. "A courier has arrived and there's a letter for you."

"Well, all right, thanks. You can go!"

Nicholas took the two letters, one of which was from his mother and the other from Sonya. He recognized them by the handwriting and opened Sonya's first. He had read only a few lines when he turned pale and his eyes opened wide with fear and joy.

"No, it's not possible!" he cried aloud.

Unable to sit still he paced up and down the room holding the letter and reading it. He glanced through it,
then read it again, and then
again, and standing still in the middle of the room he raised his shoulders, stretching out his hands, with his mouth wide open and his eyes fixed. What he had just been praying for with confidence that God would hear him had come to pass; but Nicholas was as much astonished as if it were something extraordinary and unexpected, and as if the very fact that it had happened so quickly proved that it had not come from God to whom he had prayed, but by some ordinary coincidence.

This unexpected and, as it seemed to Nicholas, quite voluntary letter from Sonya freed him from the knot that fettered him and from which there had seemed no escape. She wrote that the last unfortunate events--the loss of almost the whole of the Rostovs' Moscow property--and the countess' repeatedly expressed wish that Nicholas should marry Princess Bolkonskaya, together with his silence and coldness of late, had all combined to make her decide to release him from his promise and set
him completely free.

It would be too painful to me to think that I might be a cause of sorrow or discord in the family that has been so good to me (she

wrote), and my love has no aim but the happiness of those I love; so, Nicholas, I beg you to consider yourself free, and to be assured that, in spite of everything, no one can love you more than does

Your Sonya

Both letters were written from Troitsa. The other, from the countess, described their last days in Moscow, their departure, the fire, and the destruction of all their property. In this letter the countess also mentioned that Prince Andrew was among the wounded traveling with them; his state was very critical, but the doctor said there was now more hope. Sonya and Natasha were nursing him.

Next day Nicholas took his mother's letter and went to see Princess Mary. Neither he nor she said a word about what "Natasha nursing him" might mean, but thanks to this letter Nicholas suddenly became almost as intimate with the princess as if they were relations.

The following day he saw Princess Mary off on her journey to Yaroslavl, and a few days later left to rejoin his regiment.

CHAPTER VIII

Sonya's letter written from Troitsa, which had come as an answer to Nicholas' prayer, was prompted by this: the thought of getting Nicholas married to an heiress occupied the old countess' mind more and more. She knew that Sonya was the chief obstacle to this happening, and Sonya's life in the countess' house had grown harder and harder, especially after they had received a letter from Nicholas telling of his meeting with Princess Mary in Bogucharovo. The countess let no occasion slip of making humiliating or cruel allusions to Sonya.

But a few days before they left Moscow, moved and excited by all that was going on, she called Sonya to her and, instead of reproaching and making demands on her, tearfully implored her to sacrifice herself and repay all that the family had done for her by breaking off her engagement with Nicholas.

"I shall not be at peace till you promise me this."

Sonya burst into hysterical tears and replied through her sobs that she would do anything and was prepared for anything, but gave no actual promise and could not bring herself to decide to do what was demanded of her. She must sacrifice herself for the family that had reared and brought her up. To sacrifice herself for others was Sonya's habit. Her position in the house was such that only by sacrifice could she show her worth, and she was accustomed to this and loved doing it. But in all her former acts of self-sacrifice she had been happily conscious that they raised her in her own esteem and in that of others, and so made her more worthy of Nicholas whom she loved more than anything in the world. But now they wanted her to sacrifice the very thing that constituted the whole reward for her self-sacrifice and the whole meaning of her life. And for the first time she felt bitterness against those who had been her benefactors only to torture her the more painfully; she felt jealous of Natasha who had never experienced anything of this sort, had never needed to sacrifice herself, but made others sacrifice themselves for her and yet was beloved by everybody. And for the first time Sonya felt that out of her pure, quiet love for Nicholas a passionate feeling was beginning to grow up which was stronger than principle, virtue, or religion. Under the influence of this feeling Sonya, whose life of dependence had taught her involuntarily to be secretive, having answered the countess in vague general terms, avoided talking with her and resolved to wait till she should see Nicholas, not in order to set him free but on the contrary at that meeting to bind him to her forever.

The bustle and terror of the Rostovs' last days in Moscow stifled the gloomy thoughts that oppressed Sonya. She was glad to find escape from them in practical activity. But when she heard of Prince Andrew's presence in their house, despite her sincere pity for him and for Natasha, she was seized by a joyful and superstitious feeling that God did not intend her to be separated from Nicholas. She knew that Natasha loved no one but Prince Andrew and had never ceased to love him. She knew that being thrown together again under such terrible circumstances they would again fall in love with one another, and that Nicholas would then not be able to marry Princess Mary as they would be within the prohibited degrees of affinity. Despite all the terror of what had happened during those last days and during the first days of their journey, this feeling that Providence was intervening in her personal affairs cheered Sonya.

At the Troitsa monastery the Rostovs first broke their journey for a whole day.

Three large rooms were assigned to them in the monastery hostelry,

one of which was occupied by Prince Andrew. The wounded man was much better that day and Natasha was sitting with him. In the next room sat the count and countess respectfully
conversing with the prior, who was
calling on them as old acquaintances and benefactors of the monastery. Sonya was there too, tormented by curiosity as to what Prince Andrew and Natasha were talking about. She heard the sound of their voices through the door. That door opened and Natasha came out, looking excited. Not noticing the monk, who had risen to greet her and was drawing back the wide sleeve on his right arm, she went up to Sonya and took her hand.

"Natasha, what are you about? Come here!" said the countess.

Natasha went up to the monk for his blessing, and advised her to pray for aid to God and His saint.

As soon as the prior withdrew, Natasha took her friend by the hand and went with her into the unoccupied room.

"Sonya, will he live?" she asked. "Sonya, how happy I am, and how unhappy!... Sonya, dovey, everything is as it used to be. If only he lives! He cannot... because... because... of" and Natasha burst into tears.

"Yes! I knew it! Thank God!" murmured Sonya.
"He will live."

Sonya was not less agitated than her friend by the latter's fear and grief and by her own personal feelings which she shared with no one. Sobbing, she kissed and comforted Natasha. "If only he lives!" she thought. Having wept, talked, and wiped away their tears, the two friends went together to Prince Andrew's door. Natasha opened it cautiously and glanced into the room, Sonya standing beside her at the half-open door.

Prince Andrew was lying raised high on three pillows. His pale face was calm, his eyes closed, and they could see his regular breathing.

"O, Natasha!" Sonya suddenly almost screamed, catching her companion's arm and stepping back from the door.

"What? What is it?" asked Natasha.

"It's that, that..." said Sonya, with a white face and trembling lips.

Natasha softly closed the door and went with Sonya to the window, not yet understanding what the latter was telling her.

"You remember," said Sonya with a solemn and frightened expression. "You remember when I looked in the mirror for you... at Otradnoe at Christmas? Do you remember what I saw?"

"Yes, yes!" cried Natasha opening her eyes wide, and vaguely recalling that Sonya had told her something about Prince Andrew whom she had seen lying down.

"You remember?" Sonya went on. "I saw it then and told everybody, you and Dunyasha. I saw him lying on a bed," said she, making a gesture with her hand and a lifted finger at each detail, "and that he had his eyes closed and was covered just with a pink quilt, and that his hands were folded," she concluded, convincing herself that the details she had just seen were exactly what she had seen in the mirror.

She had in fact seen nothing then but had mentioned the first thing that came into her head, but what she had invented then seemed to her now as real as any other recollection. She not only remembered what she had then said--that he turned to look at her and smiled and was covered with something red--but was firmly convinced that she had then seen and said that he was covered with a pink quilt and that his eyes were closed.

"Yes, yes, it really was pink!" cried Natasha, who now thought she too remembered the word pink being used, and saw in this the most extraordinary and mysterious part of the prediction.

"But what does it mean?" she added meditatively.

"Oh, I don't know, it is all so strange," replied Sonya, clutching at her head.

A few minutes later Prince Andrew rang and Natasha went to him, but Sonya, feeling unusually excited and touched, remained at the window thinking about the strangeness of what had occurred.

They had an opportunity that day to send letters to the army, and the countess was writing to her son.

"Sonya!" said the countess, raising her eyes from her letter as her niece passed, "Sonya, won't you write to Nicholas?" She spoke in a

soft, tremulous voice, and in the weary eyes that looked over her spectacles Sonya read all that the countess meant to convey with these words. Those eyes expressed entreaty, shame at having to ask, fear of a refusal, and readiness for relentless hatred in case of such refusal.

Sonya went up to the countess and, kneeling down, kissed her hand.

"Yes, Mamma, I will write," said she.

Sonya was softened, excited, and touched by all that had occurred that day, especially by the mysterious fulfillment she had just seen of her vision. Now that she knew that the renewal of Natasha's relations with Prince Andrew would prevent Nicholas from marrying Princess Mary, she was joyfully conscious of a return of that self-sacrificing spirit in which she was accustomed to live and loved to live. So with a joyful consciousness of performing a magnanimous deed--interrupted several times by the tears that dimmed her velvety black eyes--she wrote that touching letter the arrival of which had so amazed Nicholas.

CHAPTER IX

The officer and soldiers who had arrested Pierre treated him with hostility but yet with respect, in the guardhouse to which he was taken. In their attitude toward him could still be felt both uncertainty as to who he might be--perhaps a very important person- and hostility as a result of their recent personal conflict with him.

But when the guard was relieved next morning, Pierre felt that for the new guard--both officers and men--he was not as interesting as he had been to his captors; and in fact the guard of the second day did not recognize in this big, stout man in a peasant coat the vigorous person who had fought so desperately with the marauder and the convoy and had uttered those solemn words about saving a child; they saw in him only No. 17 of the captured Russians, arrested and detained for some reason by order of the Higher Command. If they noticed anything remarkable about Pierre, it was only his unabashed, meditative concentration and thoughtfulness, and the way he spoke French, which struck them as surprisingly good. In spite of this he was placed that day with the other arrested suspects, as the

separate
room he had occupied was required by an officer.

All the Russians confined with Pierre were men of the lowest class and, recognizing him as a gentleman, they all avoided him, more especially as he spoke French. Pierre felt sad at hearing them making fun of him.

That evening he learned that all these prisoners (he, probably, among them) were to be tried for incendiarism. On the third day he was taken with the others to a house where a French general with a white mustache sat with two colonels and other Frenchmen with scarves on their arms. With the precision and definiteness customary in addressing prisoners, and which is supposed to preclude human frailty, Pierre like the others was questioned as to who he was, where he had been, with what object, and so on.

These questions, like questions put at trials generally, left the essence of the matter aside, shut out the possibility of that essence's being revealed, and were designed only to form a channel through which the judges wished
the answers of the accused to flow
so as to lead to the desired result, namely a conviction. As soon as Pierre began to say anything that did not fit in with that aim, the channel was removed and the water could flow to waste. Pierre felt, moreover, what the accused always feel at their trial, perplexity as to why these questions were put to him. He had a feeling that it was only out of condescension or a kind of civility that this device of placing a channel was employed. He knew he was in these men's power, that only by force had they brought him there, that force alone gave them the right to demand answers to their questions, and that the sole object of that assembly was to inculpate him. And so, as they had the power and wish to inculpate him, this expedient of an inquiry and trial seemed unnecessary. It was evident that any answer would lead to conviction. When asked what he was doing when he was arrested, Pierre replied in a rather tragic manner that he was restoring to its parents
a child he had saved from the flames. Why had he fought the marauder? Pierre answered that he "was protecting a woman," and that "to protect a woman who was being insulted was the duty of every man; that..." They interrupted him, for this was not to the point. Why was he in the yard of a burning house where witnesses had seen him? He replied that he had gone out to see what was happening in Moscow. Again they interrupted him: they had not asked where he was going, but why he was found near the fire? Who was he? they asked, repeating their first question, which he had declined to answer. Again he replied that he could not answer it.

"Put that down, that's bad... very bad," sternly remarked the general with the white mustache and red flushed face.

On the fourth day fires broke out on the Zubovski rampart.

Pierre and thirteen others were moved to the coach house of a merchant's house near the Crimean bridge. On his way through the streets Pierre felt stifled by the smoke which seemed to hang over the whole city. Fires were visible on all sides. He did not then realize the significance of the burning of Moscow, and looked at the fires with horror.

He passed four days in the coach house near the Crimean bridge and during that time learned, from the talk of the French soldiers, that all those confined there were awaiting a decision which might come any day from the marshal. What marshal this was, Pierre could not learn from the soldiers. Evidently for them "the marshal" represented a very high and rather mysterious power.

These first days, before the eighth of September when the prisoners were had up for a second examination, were the hardest of all for Pierre.

CHAPTER X

On the eighth of September an officer--a very important one judging by the respect the guards showed him--entered the coach house where the prisoners were. This officer, probably someone on the staff, was holding a paper in his hand, and called over all the Russians there, naming Pierre as "the man who does not give his name." Glancing indolently and indifferently at all the prisoners, he ordered the officer in charge to have them decently dressed and tidied up before taking them to the marshal. An hour later a squad of soldiers arrived and Pierre with thirteen others was led to the Virgin's Field. It was a fine day, sunny after rain, and the air was unusually pure. The smoke did not hang low as on the day when Pierre had been taken from the guardhouse on the Zubovski rampart, but rose through the pure air in columns. No flames were seen, but columns of smoke rose on all sides, and all Moscow as far as Pierre could see was one vast charred ruin. On all sides there were waste spaces with only stoves

and chimney stacks still standing, and here and there the blackened walls of some brick houses. Pierre gazed at the ruins and did not recognize districts he had known well. Here and there he could see churches that had not been burned. The Kremlin, which was not destroyed,
gleamed white in the distance with its towers and the belfry of Ivan the Great. The domes of the New Convent of the Virgin glittered brightly and its bells were ringing particularly clearly. These bells reminded Pierre that it was Sunday and the feast of the Nativity of the Virgin. But there seemed to be no one to celebrate this holiday: everywhere were blackened ruins, and the few Russians to be seen were tattered and frightened people who tried to hide when they saw the French.

It was plain that the Russian nest was ruined and destroyed, but in place of the Russian order of life that had been destroyed, Pierre unconsciously felt that a quite different, firm, French order had been established over this ruined nest. He felt this in the looks of the soldiers who, marching in regular ranks briskly and gaily, were escorting him and the other criminals; he felt it in the looks of an important French official in a carriage and pair driven by a soldier, whom they met on the way. He felt it
in the merry sounds of regimental music he heard from the left side of the field, and felt and realized it especially from the list of prisoners the French officer had read out when he came that morning. Pierre had been taken by one set of soldiers and led first to one and then to another place with dozens of other men, and it seemed that they might have forgotten him, or confused him with the others. But no: the answers he had given when questioned had come back to him in his designation as "the man who does not give his name," and under that appellation, which to Pierre seemed terrible, they were now leading him somewhere with unhesitating assurance on their faces that he and all the other prisoners were exactly the ones they wanted and that they were being taken to the proper place. Pierre felt himself to be an insignificant chip fallen among the wheels of a machine whose action he did not understand but which was working well.

He and the other prisoners were taken to the right side
of the Virgin's Field, to a large white house with an immense garden not far from the convent. This was Prince Shcherbitov's house, where Pierre had often been in other days, and which, as he learned from the talk of the soldiers, was now occupied by the marshal, the Duke of Eckmuhl (Davout).

They were taken to the entrance and led into the house one by one. Pierre was the sixth to enter. He was conducted through a glass

gallery, an anteroom, and a hall, which were familiar to him, into a long low study at the door of which stood an adjutant.

Davout, spectacles on nose, sat bent over a table at the further end of the room. Pierre went close up to him, but Davout, evidently consulting a paper that lay before him, did not look up. Without raising his eyes, he said in a low voice:

"Who are you?"

Pierre was silent because he was incapable of uttering a word. To him Davout was not merely a French general, but a man notorious for his cruelty. Looking at his cold face, as he sat like a
stern
schoolmaster who was prepared to wait awhile for an answer, Pierre felt that every instant of delay might cost him his life; but he did not know what to say. He did not venture to repeat what he had said at his first examination, yet to disclose his rank and position was dangerous and embarrassing. So he was silent. But before he had decided what to do, Davout raised his head, pushed his spectacles back on his forehead, screwed up his eyes, and looked intently at him.

"I know that man," he said in a cold, measured tone, evidently calculated to frighten Pierre.

The chill that had been running down Pierre's back now seized his head as in a vise.

"You cannot know me, General, I have never seen you..."

"He is a Russian spy," Davout interrupted, addressing another general who was present, but whom Pierre had not noticed.

Davout turned away. With an unexpected reverberation in his voice Pierre rapidly began:

"No, monseigneur," he said, suddenly remembering that Davout was a duke.
"No, monseigneur, you cannot have known me. I am a militia officer and have not quitted Moscow."

"Your name?" asked Davout.

"Bezukhov."

"What proof have I that you are not lying?"

"Monseigneur!" exclaimed Pierre, not in an offended but in a

pleading voice.

Davout looked up and gazed intently at him. For some seconds they looked at one another, and that look saved Pierre. Apart from conditions of war and law, that look established human relations between the two men. At that moment an immense number of things passed dimly through both their minds, and they realized that they were both children of humanity and were brothers.

At the first glance, when Davout had only raised his head from the papers where human affairs and lives were indicated by numbers, Pierre was merely a circumstance, and Davout could have shot him without burdening his conscience with an evil deed, but now he saw in him a human being. He reflected for a moment.

"How can you show me that you are telling the truth?" said Davout coldly.

Pierre remembered Ramballe, and named him and his regiment and the street where the house was.

"You are not what you say," returned Davout.

In a trembling, faltering voice Pierre began adducing proofs of the truth of his statements.

But at that moment an adjutant entered and reported something to Davout.

Davout brightened up at the news the adjutant brought, and began buttoning up his uniform. It seemed that he had quite forgotten Pierre.

When the adjutant reminded him of the prisoner, he jerked his head in Pierre's direction with a frown and ordered him to be led away. But where they were to take him Pierre did not know: back to the coach house or to the place of execution his companions had pointed out to him as they crossed the Virgin's Field.

He turned his head and saw that the adjutant was putting another question to Davout.

"Yes, of course!" replied Davout, but what this "yes" meant, Pierre did not know.

Pierre could not afterwards remember how

he went, whether it was
far, or in which direction. His faculties were quite numbed, he was stupefied, and noticing nothing around him went on moving his legs as the others did till they all stopped and he stopped too. The only thought in his mind at that time was: who was it that had really sentenced him to death? Not the men on the commission that had first examined him--not one of them wished to or, evidently, could have done it. It was not Davout, who had looked at him in so human a way. In another moment Davout would have realized that he was doing wrong, but just then the adjutant had come in and interrupted him. The adjutant, also, had evidently had no evil intent though he might have refrained from coming in. Then who was executing him, killing him, depriving him of life--him, Pierre, with all his memories, aspirations, hopes, and thoughts? Who was doing this? And Pierre felt that it was no one.

It was a system--a concurrence of circumstances.

A system of some sort was killing
him--Pierre--depriving him of
life, of everything, annihilating him.

CHAPTER XI

From Prince Shcherbatov's house the prisoners were led straight down the Virgin's Field, to the left of the nunnery, as far as a kitchen garden in which a post had been set up. Beyond that post a fresh pit had been dug in the ground, and near the post and the pit a large crowd stood in a semicircle. The crowd consisted of a few Russians and many of Napoleon's soldiers who were not on duty--Germans, Italians, and Frenchmen, in a variety of uniforms. To the right and left of the post stood rows of French troops in blue uniforms with red epaulets and high boots and shakos.

The prisoners were placed in a certain order, according to the list (Pierre was sixth), and were led to the post. Several drums suddenly began to beat on both sides of them, and at that sound Pierre felt as if part of his soul had been torn away. He lost the power of thinking or understanding. He could only hear and see. And he had
only
one wish--that the frightful thing that had to happen should happen quickly. Pierre looked round at his fellow prisoners and scrutinized them.

The two first were convicts with shaven heads. One was tall and thin, the other dark, shaggy, and sinewy, with a flat nose. The third was a domestic serf, about forty-five years old, with grizzled hair and a plump, well-nourished body. The fourth was a peasant, a very handsome man with a broad, light-brown beard and black eyes. The fifth was a factory hand, a thin, sallow-faced lad of eighteen in a loose coat.

Pierre heard the French consulting whether to shoot them separately or two at a time. "In couples," replied the officer in command in a calm voice. There was a stir in the ranks of the soldiers and it was evident that they were all hurrying--not as men hurry to do something they understand, but as people hurry to finish a necessary but unpleasant and incomprehensible task.

A French official wearing a scarf came up to the right of the row of prisoners and read out the sentence in Russian and in French.

Then two pairs of Frenchmen approached the criminals and at the officer's command took the two convicts who stood first in the row. The convicts stopped when they reached the post and, while sacks were being brought, looked dumbly around as a wounded beast looks at an approaching huntsman. One crossed himself continually, the other scratched his back and made a movement of the lips resembling a smile. With hurried hands the soldiers blindfolded them, drawing the sacks over their heads, and bound them to the post.

Twelve sharpshooters with muskets stepped out of the ranks with a firm regular tread and halted eight paces from the post. Pierre turned away to avoid seeing what was going to happen. Suddenly a crackling, rolling noise was heard which seemed to him louder than the most terrific thunder, and he looked round. There was some smoke, and the Frenchmen were doing something near the pit, with pale faces and trembling hands. Two more prisoners were led up. In the same way and with similar looks, these two glanced vainly at the onlookers with only a silent appeal for protection in their eyes, evidently unable to understand or believe what was going to happen to them. They could not believe it because they alone knew what their life meant to them, and so they neither understood nor believed that it could be taken from them.

Again Pierre did not wish to look and again turned away; but again the sound as of a frightful explosion struck his ear, and at the same moment he saw smoke, blood, and the pale, scared faces of the Frenchmen who were again doing something by the post, their

trembling hands impeding one another. Pierre, breathing heavily, looked around as if asking what it meant. The same question was expressed in all the looks that met his.

On the faces of all the Russians and of the French soldiers and officers without exception, he read the same dismay, horror, and conflict that were
in his own heart. "But who, after all, is doing
this? They are all suffering as I am. Who then is it? Who?" flashed for an instant through his mind.

"Sharpshooters of the 86th, forward!" shouted someone. The fifth prisoner, the one next to Pierre, was led away--alone. Pierre did not understand that he was saved, that he and the rest had been brought there only to witness the execution. With ever-growing horror, and no sense of joy or relief, he gazed at what was taking place. The fifth man was the factory lad in the loose cloak. The moment they laid hands on him he sprang aside in terror and clutched at Pierre. (Pierre shuddered and shook himself free.) The lad was unable to walk. They dragged him along, holding him up under the arms, and he screamed. When they got him to the post he grew quiet, as if he suddenly understood something. Whether he understood that screaming was useless or whether he thought it incredible that men should kill him, at any rate he took his stand at the post,
waiting to be
blindfolded like the others, and like a wounded animal looked around him with glittering eyes.

Pierre was no longer able to turn away and close his eyes. His curiosity and agitation, like that of the whole crowd, reached the highest pitch at this fifth murder. Like the others this fifth man seemed calm; he wrapped his loose cloak closer and rubbed one bare foot with the other.

When they began to blindfold him he himself adjusted the knot which hurt the back of his head; then when they propped him against the bloodstained post, he leaned back and, not being comfortable in that position, straightened himself, adjusted his feet, and leaned back again more comfortably. Pierre did not take his eyes from him and did not miss his slightest movement.

Probably a word of command was given and was followed by the reports of eight muskets; but try as he would Pierre could not afterwards remember having heard the slightest sound of the shots. He only saw how the workman suddenly
sank down on the cords that held him, how
blood showed itself in two places, how the ropes slackened under the weight of the hanging body, and how the workman sat down, his head

hanging unnaturally and one leg bent under him. Pierre ran up to the post. No one hindered him. Pale, frightened people were doing something around the workman. The lower jaw of an old Frenchman with a thick mustache trembled as he untied the ropes. The body collapsed. The soldiers dragged it awkwardly from the post and began pushing it into the pit.

They all plainly and certainly knew that they were criminals who must hide the traces of their guilt as quickly as possible.

Pierre glanced into the pit and saw that the factory lad was lying with his knees close up to his head and one shoulder higher than the other. That shoulder rose and fell rhythmically and convulsively, but spadefuls of earth were already being thrown over the whole body. One of the soldiers, evidently suffering, shouted gruffly and angrily
at Pierre to go back. But Pierre did not understand him and remained near the post, and no one drove him away.

When the pit had been filled up a command was given. Pierre was taken back to his place, and the rows of troops on both sides of the post made a half turn and went past it at a measured pace. The twenty-four sharpshooters with discharged muskets, standing in the center of the circle, ran back to their places as the companies passed by.

Pierre gazed now with dazed eyes at these sharpshooters who ran in couples out of the circle. All but one rejoined their companies. This one, a young soldier, his face deadly pale, his shako pushed back, and his musket resting on the ground, still stood near the pit at the spot from which he had fired. He swayed like a drunken man, taking some steps forward and back to save himself from falling. An old, noncommissioned officer ran out of the ranks and taking him by the elbow dragged him to his company. The crowd of Russians and Frenchmen began
to disperse. They all went away silently and with drooping heads.

"That will teach them to start fires," said one of the Frenchmen.

Pierre glanced round at the speaker and saw that it was a soldier who was trying to find some relief after what had been done, but was not able to do so. Without finishing what he had begun to say he made a hopeless movement with his arm and went away.

CHAPTER XII

After the execution Pierre was separated from the rest of the prisoners and placed alone in a small, ruined, and befouled church.

Toward evening a noncommissioned officer entered with two soldiers and told him that he had been pardoned and would now go to the barracks for the prisoners of war. Without understanding what was said to him, Pierre got up and went with the soldiers. They took him to the upper end of the field, where there were some sheds built of charred planks, beams, and battens, and led him into one of them. In the darkness some twenty different men surrounded Pierre. He looked at them without understanding who they were, why they were there, or what they wanted of him. He heard what they said, but did not understand the meaning of the words and made no kind of deduction from or application of them. He replied to questions they put to him, but did not consider who was listening to his replies, nor how they would understand them. He looked at their faces and figures, but they all seemed to him equally meaningless.

From the moment Pierre had witnessed those terrible murders committed by men who did not wish to commit them, it was as if the mainspring of his life, on which everything depended and which made everything appear alive, had suddenly been wrenched out and everything had collapsed into a heap of meaningless rubbish. Though he did not acknowledge it to himself, his faith in the right ordering of the universe, in humanity, in his own soul, and in God, had been destroyed. He had experienced this before, but never so strongly as now. When similar doubts had assailed him before, they had been the result of his own wrongdoing, and at the bottom of his heart he had felt that relief from his despair and from those doubts was to be found within himself. But now he felt that the universe had crumbled before his eyes and only meaningless ruins remained, and this not by any fault of his own. He felt that it was not in his power to regain faith in the meaning of life.

Around him in the darkness men were standing and evidently something about him interested them greatly. They were telling him something and asking him something. Then they led him away somewhere, and at last he found himself in a corner of the shed among men who were laughing and talking on all sides.

"Well, then, mates... that very prince who..." some voice at the other end of the shed was saying, with a strong emphasis on the word

who.

Sitting silent and motionless on a heap of straw against the wall, Pierre sometimes opened and sometimes closed his eyes. But as soon as
he closed them he saw before him the dreadful face of the factory lad--especially dreadful because of its simplicity--and the faces of the murderers, even more dreadful because of their disquiet. And he opened his eyes again and stared vacantly into the darkness around him.

Beside him in a stooping position sat a small man of whose presence he was first made aware by a strong smell of perspiration which came from him every time he moved. This man was doing something to his legs in the darkness, and though Pierre could not see his face he felt that the man continually glanced at him. On growing used to the darkness Pierre saw that the man was taking off his leg bands, and the way he did it aroused Pierre's interest.

Having unwound the string that tied the band on one leg, he carefully coiled it up and immediately set to work on the other leg, glancing up at Pierre. While one hand hung up the first string the other was already unwinding the band on the second leg. In this way, having
carefully removed the leg bands by deft circular motions of his arm following one another uninterruptedly, the man hung the leg bands up on some pegs fixed above his head. Then he took out a knife, cut something, closed the knife, placed it under the head of his bed, and, seating himself comfortably, clasped his arms round his lifted knees and fixed his eyes on Pierre. The latter was conscious of something pleasant, comforting, and well rounded in these deft movements, in the man's well-ordered arrangements in his corner, and even in his very smell, and he looked at the man without taking his eyes from him.

"You've seen a lot of trouble, sir, eh?" the little man suddenly said.

And there was so much kindliness and simplicity in his singsong voice that Pierre tried to reply, but his jaw trembled and he felt tears rising to his eyes. The little fellow, giving Pierre no time to betray his confusion, instantly continued in the same pleasant tones:

"Eh, lad, don't fret!" said he, in the
tender singsong caressing
voice old Russian peasant women employ. "Don't fret, friend--'suffer an hour, live for an age!' that's how it is, my dear fellow. And

here we live, thank heaven, without offense. Among these folk, too, there are good men as well as bad," said he, and still speaking, he turned on his knees with a supple movement, got up, coughed, and went off to another part of the shed.

"Eh, you rascal!" Pierre heard the same kind voice saying at the other end of the shed. "So you've come, you rascal? She remembers... Now, now, that'll do!"

And the soldier, pushing away a little dog that was jumping up at him, returned to his place and sat down. In his hands he had something wrapped in a rag.

"Here, eat a bit, sir," said he, resuming his former respectful tone as he unwrapped and offered Pierre some baked potatoes. "We had soup for dinner and the potatoes are grand!"

Pierre had not eaten all day and the smell of the potatoes seemed extremely pleasant to him. He thanked the soldier and began to eat.

"Well, are they all right?" said the soldier with a smile. "You should do like this."

He took a potato, drew out his clasp knife, cut the potato into two equal halves on the palm of his hand, sprinkled some salt on it from the rag, and handed it to Pierre.

"The potatoes are grand!" he said once more. "Eat some like that!"

Pierre thought he had never eaten anything that tasted better.

"Oh, I'm all right," said he, "but why did they shoot those poor fellows? The last one was hardly twenty."

"Tss, tt...!" said the little man. "Ah, what a sin... what a sin!" he added quickly, and as if his words were always waiting ready in his mouth and flew out involuntarily he went on: "How was it, sir, that you stayed in Moscow?"

"I didn't think they would come so soon. I stayed accidentally," replied Pierre.

"And how did they arrest you, dear lad? At your house?"

"No, I went to look at the fire, and they arrested me there, and tried me as an incendiary."

"Where there's
law there's injustice," put in the little man.

"And have you been here long?" Pierre asked as he munched the last of the potato.

"I? It was last Sunday they took me, out of a hospital in Moscow."

"Why, are you a soldier then?"

"Yes, we are soldiers of the Apsheron regiment. I was dying of fever. We weren't told anything. There were some twenty of us lying there. We had no idea, never guessed at all."

"And do you feel sad here?" Pierre inquired.

"How can one help it, lad? My name is Platon, and the surname is Karataev," he added, evidently wishing to make it easier for Pierre to address him. "They call me 'little falcon' in the regiment. How is one to help feeling sad? Moscow--she's the mother of cities. How can one see all this and not feel sad? But 'the maggot gnaws the cabbage, yet dies first'; that's what the old folks used to tell us," he added rapidly.

"What? What did you say?" asked Pierre.

"Who? I?" said Karataev. "I say things happen not as we plan but as God judges,"
he replied, thinking that he was repeating what he had said before, and immediately continued:

"Well, and you, have you a family estate, sir? And a house? So you have abundance, then? And a housewife? And your old parents, are they still living?" he asked.

And though it was too dark for Pierre to see, he felt that a suppressed smile of kindliness puckered the soldier's lips as he put these questions. He seemed grieved that Pierre had no parents, especially that he had no mother.

"A wife for counsel, a mother-in-law for welcome, but there's none as dear as one's own mother!" said he. "Well, and have you little ones?" he went on asking.

Again Pierre's negative answer seemed to distress him, and he hastened to add:

"Never mind! You're young folks yet, and please God may still have

some. The great thing is to live in harmony...."

"But it's all the same now," Pierre could not help saying.

"Ah, my dear fellow!" rejoined Karataev, "never decline a prison or a beggar's sack!"

He seated himself more comfortably and coughed, evidently preparing to tell a long story.

"Well, my dear fellow, I was still living at home," he began. "We had a well-to-do homestead, plenty of land, we peasants lived well and our house was one to thank God for. When Father and we went out mowing there were seven of us. We lived well. We were real peasants. It so happened..."

And Platon Karataev told a long story of how he had gone into someone's copse to take wood, how he had been caught by the keeper, had been tried, flogged, and sent to serve as a soldier.

"Well, lad," and a smile changed the tone of his voice "we thought it was a misfortune but it turned out a blessing! If it had not been for my sin, my brother would have had to go as a soldier. But he, my younger brother, had five little ones, while I, you see, only left a wife behind. We had a little girl, but God took her before I went as a soldier. I come home on leave and I'll tell you how it was, I look and see that they are living better than before. The yard full of cattle, the women at home, two brothers away earning wages, and only Michael the youngest, at home. Father, he says, 'All my children are the same to me: it hurts the same whichever finger gets bitten. But if Platon hadn't been shaved for a soldier, Michael would have had to go.' called us all to him and, will you believe it, placed us in front of the icons. 'Michael,' he says, 'come here and bow down to his feet; and you, young woman, you bow down too; and you, grandchildren, also bow down before him! Do you understand?' he says. That's how it is, dear fellow. Fate looks for a head. But we are always judging, 'that's not well--that's not right!' Our luck is like water in a dragnet: you pull at it and it bulges, but when you've drawn it out it's empty! That's how it is."

And Platon shifted his seat on the straw.

After a short silence he rose.

"Well, I think you must be sleepy," said he, and began rapidly crossing himself and repeating:

"Lord
Jesus Christ, holy Saint Nicholas, Frola and Lavra! Lord Jesus
Christ, holy Saint Nicholas, Frola and Lavra! Lord Jesus Christ,
have mercy on us and save us!" he concluded, then bowed to the ground,
got up, sighed, and sat down again on his heap of straw. "That's the
way. Lay me down like a stone, O God, and raise me up like a loaf," he
muttered as he lay down, pulling his coat over him.

"What prayer was that you were saying?" asked Pierre.

"Eh?" murmured Platon, who had almost fallen asleep. "What was I
saying? I was praying. Don't you pray?"

"Yes, I do," said Pierre. "But what was that you said: Frola and
Lavra?"

"Well, of course," replied Platon quickly, "the horses' saints.
One must pity the animals too. Eh, the rascal! Now you've curled up
and got warm, you daughter of a bitch!" said Karataev, touching the
dog that lay at his feet, and again turning over he fell asleep
immediately.

Sounds of crying and screaming came from somewhere in the distance
outside, and flames were
visible through the cracks of the shed, but
inside it was quiet and dark. For a long time Pierre did not sleep,
but lay with eyes open in the darkness, listening to the regular
snoring of Platon who lay beside him, and he felt that the world
that had been shattered was once more stirring in his soul with a
new beauty and on new and unshakable foundations.

CHAPTER XIII

Twenty-three soldiers, three officers, and two officials were
confined in the shed in which Pierre had been placed and where he
remained for four weeks.

When Pierre remembered them afterwards they all seemed misty figures
to him except Platon Karataev, who always remained in his mind a
most vivid and precious memory and the personification of everything
Russian, kindly, and round. When Pierre saw his neighbor next
morning at dawn the first impression of him, as of something round,

was fully confirmed: Platon's whole figure--in a French overcoat girdled with a cord, a soldier's cap, and bast shoes--was round. His head
was quite round, his back, chest, shoulders, and even his arms, which he held as if ever ready to embrace something, were rounded, his pleasant smile and his large, gentle brown eyes were also round.

Platon Karataev must have been fifty, judging by his stories of campaigns he had been in, told as by an old soldier. He did not himself know his age and was quite unable to determine it. But his brilliantly white, strong teeth which showed in two unbroken semicircles when he laughed--as he often did--were all sound and good, there was not a gray hair in his beard or on his head, and his whole body gave an impression of suppleness and especially of firmness and endurance.

His face, despite its fine, rounded wrinkles, had an expression of innocence and youth, his voice was pleasant and musical. But the chief peculiarity of his speech was its directness and appositeness. It was evident that he never considered what he had said or was going to say, and consequently the rapidity and justice
of his intonation
had an irresistible persuasiveness.

His physical strength and agility during the first days of his imprisonment were such that he seemed not to know what fatigue and sickness meant. Every night before lying down, he said: "Lord, lay me down as a stone and raise me up as a loaf!" and every morning on getting up, he said: "I lay down and curled up, I get up and shake myself." And indeed he only had to lie down, to fall asleep like a stone, and he only had to shake himself, to be ready without a moment's delay for some work, just as children are ready to play directly they awake. He could do everything, not very well but not badly. He baked, cooked, sewed, planed, and mended boots. He was always busy, and only at night allowed himself conversation--of which he was fond--and songs. He did not sing like a trained singer who knows he is listened to, but like the birds, evidently giving vent to the sounds in the same way that one stretches oneself or walks about to get rid
of stiffness, and the sounds were always
high-pitched, mournful, delicate, and almost feminine, and his face at such times was very serious.

Having been taken prisoner and allowed his beard to grow, he seemed to have thrown off all that had been forced upon him-everything military and alien to himself--and had returned to his former peasant habits.

"A soldier on leave--a shirt outside breeches," he would say.

He did not like talking about his life as a soldier, though he did not complain, and often mentioned that he had not been flogged once during the whole of his army service. When he related anything it was generally some old and evidently precious memory of his "Christian" life, as he called his peasant existence. The proverbs, of which his talk was full, were for the most part not the coarse and indecent saws soldiers employ, but those folk sayings which taken without a context seem so insignificant, but when used appositely suddenly acquire a significance of profound wisdom.

He would often say the exact opposite of what he had said on a previous occasion, yet both would be right. He liked to talk and he talked well, adorning his speech with terms of endearment and with folk sayings which Pierre thought he invented himself, but the chief charm of his talk lay in the fact that the commonest events--sometimes just such as Pierre had witnessed without taking notice of them-assumed in Karataev's a character of solemn fitness. He liked to hear the folk tales one of the soldiers used to tell of an evening (they were always the same), but most of all he liked to hear stories of real life. He would smile joyfully when listening to such stories, now and then putting in a word or asking a question to make the moral beauty of what he was told clear to himself. Karataev had no attachments, friendships, or love, as Pierre understood them, but loved and lived affectionately with everything life brought him in contact with, particularly with man--not any particular man, but those with whom he happened to be. He loved his dog, his comrades, the French, and Pierre who was his neighbor, but Pierre felt that in spite of Karataev's affectionate tenderness for him (by which he unconsciously gave Pierre's spiritual life its due) he would not have grieved for a moment at parting from him. And Pierre began to feel in the same way toward Karataev.

To all the other prisoners Platon Karataev seemed a most ordinary soldier. They called him "little falcon" or "Platosha," chaffed him good-naturedly, and sent him on errands. But to Pierre he always remained what he had seemed that first night: an unfathomable, rounded, eternal personification of the spirit of simplicity and truth.

Platon Karataev knew nothing by heart except his prayers. When he began to speak he seemed not to know how he would conclude.

Sometimes Pierre, struck by the meaning of his words, would ask him to repeat them, but Platon could never recall what he had said a

moment before, just as he never could repeat to Pierre the words of his favorite song: native and birch tree and my heart is sick occurred in it, but when spoken and not sung, no meaning could be got out of it. He did not, and could not, understand the meaning of words apart from their context. Every word and action of his was the manifestation of an activity unknown to him, which was his life. But his life, as he regarded it, had no meaning as a separate thing. It had meaning only as part of a whole of which he was always conscious. His words and actions flowed from him as evenly, inevitably, and spontaneously as fragrance exhales from a flower. He could not understand the value or significance of any word or deed taken separately.

CHAPTER XIV

When Princess Mary heard from Nicholas that her brother was with the Rostovs at Yaroslavl she at once prepared to go there, in spite of her aunt's efforts to dissuade her--and not merely to go herself but to take her nephew with her. Whether it were difficult or easy, possible or impossible, she did not ask and did not want to know: it was her duty not only herself to be near her brother who was perhaps dying, but to do everything possible to take his son to him, and so she prepared to set off. That she had not heard from Prince Andrew himself, Princess Mary attributed to his being too weak to write or to his considering the long journey too hard and too dangerous for her and his son.

In a few days Princess Mary was ready to start. Her equipages were the huge family coach in which she had traveled to Voronezh, a semiopen trap, and a baggage cart. With her traveled Mademoiselle Bourienne, little Nicholas and his tutor, her old nurse, three maids, Tikhon, and a young footman and courier her aunt had sent to accompany her.

The usual route through Moscow could not be thought of, and the roundabout way Princess Mary was obliged to take through Lipetsk, Ryazan, Vladimir, and Shuya was very long and, as post horses were not everywhere obtainable, very difficult, and near Ryazan where the French were said to have shown themselves was even dangerous.

During this difficult journey Mademoiselle Bourienne, Dessalles, and

Princess Mary's servants were astonished at her energy and firmness of spirit. She went to bed later and rose earlier than any of them, and no difficulties daunted her. Thanks to her activity and energy, which infected her fellow travelers, they approached Yaroslavl by the end of the second week.

The last days of her stay in Voronezh had been the happiest of her life. Her love for Rostov no longer tormented or agitated her. It filled her whole soul, had become an integral part of herself, and she no longer struggled against it. Latterly she had become convinced that she loved and was beloved, though she never said this definitely to herself in words. She had become convinced of it at her last interview with Nicholas, when he had come to tell her that her brother was with the Rostovs. Not by a single word had Nicholas alluded to the fact that Prince Andrew's relations with Natasha might, if he recovered, be renewed, but Princess Mary saw by his face that he knew and thought of this.

Yet in spite of that, his relation to her--considerate, delicate, and loving--not only remained unchanged, but it sometimes seemed to Princess Mary that he was even glad that the family connection between them allowed him to express his friendship more freely. She knew that she loved for the first and only time in her life and felt that she was beloved, and was happy in regard to it.

But this happiness on one side of her spiritual nature did not prevent her feeling grief for her brother with full force; on the contrary, that spiritual tranquility on the one side made it the more possible for her to give full play to her feeling for her brother. That feeling was so strong at the moment of leaving Voronezh that those who saw her off, as they looked at her careworn, despairing face, felt sure she would fall ill on the journey. But the very difficulties and preoccupations of the journey, which she took so actively in hand, saved her for a while from her grief and gave her strength.

As always happens when traveling, Princess Mary thought only of the journey itself, forgetting its object. But as she approached Yaroslavl the thought of what might await her there--not after many days, but that very evening--again presented itself to her and her agitation increased to its utmost limit.

The courier who had been sent on in advance to find out where the Rostovs were staying in Yaroslavl, and in what condition Prince Andrew was, when he met the big coach just entering the town gates was appalled by the terrible pallor of the princess' face that looked

out at him from the window.

"I have found out everything, your excellency: the Rostovs are staying at the merchant Bronnikov's house, in the Square not far from here, right above the Volga," said the courier.

Princess Mary looked at him with frightened inquiry, not understanding why he did not reply to what she chiefly wanted to know: how was her brother? Mademoiselle Bourienne put that question for her.

"How is the prince?" she asked.

"His excellency is staying in the same house with them."

"Then he is alive," thought Princess Mary, and asked in a low voice: "How is he?"

"The servants say he is still the same."

What "still the same" might mean Princess Mary did not ask, but with an unnoticed glance at little seven-year-old Nicholas, who was sitting in front of her looking with pleasure at the town, she bowed her head and did not raise it again till the heavy coach, rumbling, shaking and swaying, came to a stop. The carriage steps clattered as they were let down.

The carriage door was opened. On the left there was water--a great river--and on the right a porch. There were people at the entrance: servants, and a rosy girl with a large plait of black hair, smiling as it seemed to Princess Mary in an unpleasantly affected way. (This was Sonya.) Princess Mary ran up the steps. "This way, this way!" said the girl, with the same artificial smile, and the princess found herself in the hall facing an elderly woman of Oriental type, who came rapidly to meet her with a look of emotion. This was the countess. She embraced Princess Mary and kissed her.

"Mon enfant!" she muttered, "je vous aime et vous connais depuis longtemps."*

*"My child! I love you and have known you a long time."

Despite her excitement, Princess Mary realized that this was the countess and that it was necessary to say something to her. Hardly knowing how she did it, she contrived to utter a few polite phrases in French in the same tone as those that had been addressed to her, and

asked: "How is he?"

"The doctor says that he is not in danger," said the countess, but as she spoke she raised her eyes with a sigh, and her gesture conveyed a contradiction of her words.

"Where is he? Can I see him--can I?" asked the princess.

"One moment, Princess, one moment, my dear! Is this his son?" said the countess, turning to little Nicholas who was coming in with Dessalles. "There will be room for everybody, this is a big house. Oh, what a lovely boy!"

The countess took Princess Mary into the drawing room, where Sonya was talking to Mademoiselle Bourienne. The countess caressed the boy, and the old count came in and welcomed the princess. He had changed very much since Princess Mary had last seen him. Then he had been a brisk, cheerful, self-assured old man; now he seemed a pitiful, bewildered person. While talking to Princess Mary he continually looked round as if asking everyone whether he was doing the right thing. After the destruction of Moscow and of his property, thrown out of his accustomed groove he seemed to have lost the sense of his own significance and to feel that there was no longer a place for him in life.

In spite of her one desire to see her brother as soon as possible, and her vexation that at the moment when all she wanted was to see him they should be trying to entertain her and pretending to admire her nephew, the princess noticed all that was going on around her and felt the necessity of submitting, for a time, to this new order of things which she had entered. She knew it to be necessary, and though it was hard for her she was not vexed with these people.

"This is my niece," said the count, introducing Sonya--"You don't know her, Princess?"

Princess Mary turned to Sonya and, trying to stifle the hostile feeling that arose in her toward the girl, she kissed her. But she felt oppressed by the fact that the mood of everyone around her was so far from what was in her own heart.

"Where is he?" she asked again, addressing them all.

"He is downstairs. Natasha is with him," answered Sonya, flushing. "We have sent to ask. I think you must be tired, Princess."

Tears of vexation showed themselves in Princess Mary's eyes. She turned away and was about to ask the countess again how to go to him, when light,
impetuous, and seemingly buoyant steps were heard
at the door. The princess looked round and saw Natasha coming in, almost running--that Natasha whom she had liked so little at their meeting in Moscow long since.

But hardly had the princess looked at Natasha's face before she realized that here was a real comrade in her grief, and consequently a friend. She ran to meet her, embraced her, and began to cry on her shoulder.

As soon as Natasha, sitting at the head of Prince Andrew's bed, heard of Princess Mary's arrival, she softly left his room and hastened to her with those swift steps that had sounded buoyant to Princess Mary.

There was only one expression on her agitated face when she ran into the drawing room--that of love--boundless love for him, for her, and for all that was near to the man she loved; and of pity, suffering for others, and passionate desire to give herself entirely to helping them. It was plain that at that moment there was in Natasha's heart no thought of herself
or of her own relations with Prince Andrew.

Princess Mary, with her acute sensibility, understood all this at the first glance at Natasha's face, and wept on her shoulder with sorrowful pleasure.

"Come, come to him, Mary," said Natasha, leading her into the other room.

Princess Mary raised her head, dried her eyes, and turned to Natasha. She felt that from her she would be able to understand and learn everything.

"How..." she began her question but stopped short.

She felt that it was impossible to ask, or to answer, in words. Natasha's face eyes would have to tell her all more clearly
and profoundly.

Natasha was gazing at her, but seemed afraid and in doubt whether to say all she knew or not; she seemed to feel that before those luminous eyes which penetrated into the very depths of her heart, it was impossible not to tell the whole truth which she saw. And suddenly, Natasha's lips twitched, ugly wrinkles gathered round her mouth, and

covering her face with her hands she burst into sobs.

Princess Mary understood.

But she still hoped, and asked, in words she herself did not trust:

"But how is his wound? What is his general condition?"

"You, you... will see," was all Natasha could say.

They sat a little while downstairs near his room till they had left off crying and were able to go to him with calm faces.

"How has his whole illness gone? Is it long since he grew worse? When did this happen?" Princess Mary inquired.

Natasha told her that at first there had been danger from his feverish condition and the pain he suffered, but at Troitsa that had passed and the doctor had only been afraid of gangrene. That danger had also passed. When they reached Yaroslavl the wound had begun to fester (Natasha knew all about such things as festering) and the doctor had said that the festering might take a normal course. Then fever set in, but the doctor had said the fever was not very serious.

"But two days ago this suddenly happened," said Natasha, struggling with her sobs. "I don't know why, but you will see what he is like."

"Is he weaker? Thinner?" asked the princess.

"No, it's not that, but worse. You will see. O, Mary, he is too good, he cannot, cannot live, because..."

CHAPTER XV

When Natasha opened Prince Andrew's door with a familiar movement and let Princess Mary pass into the room before her, the princess felt the sobs in her throat. Hard as she had tried to prepare herself, and now tried to remain tranquil, she knew that she would be unable to look at him without tears.

The princess understood what Natasha had meant by the words: "two days ago this suddenly happened." She understood those words to mean that he had suddenly softened and that this softening and gentleness were signs of approaching death. As she stepped to the door she already saw in imagination Andrew's face as she remembered it in childhood, a gentle, mild, sympathetic face which he had rarely shown, and which therefore affected her very strongly. She was sure he would speak soft, tender words to her such as her father had uttered before his death, and that she would not be able to bear it and would burst into sobs in his presence. Yet sooner or later it had to be, and she went in. The sobs rose higher and higher in her throat as she more and more clearly distinguished his form and her shortsighted eyes tried to make out his features, and then she saw his face and met his gaze.

He was lying in a squirrel-fur dressing gown on a divan, surrounded by pillows. He was thin and pale. In one thin, translucently white hand he held a handkerchief, while with the other he stroked the delicate mustache he had grown, moving his fingers slowly. His eyes gazed at them as they entered.

On seeing his face and meeting his eyes Princess Mary's pace suddenly slackened, she felt her tears dry up and her sobs ceased. She suddenly felt guilty and grew timid on catching the expression of his face and eyes.

"But in what am I to blame?" she asked herself. And his cold, stern look replied: "Because you are alive and thinking of the living, while I..."

In the deep gaze that seemed to look not outwards but inwards there was an almost hostile expression as he slowly regarded his sister and Natasha.

He kissed his sister, holding her hand in his as was their wont.

"How are you, Mary? How did you manage to get here?" said he in a voice as calm and aloof as his look.

Had he screamed in agony, that scream would not have struck such horror into Princess Mary's heart as the tone of his voice.

"And have you brought little Nicholas?" he asked in the same slow, quiet manner and with an obvious effort to remember.

"How are you now?" said Princess Mary, herself surprised at what she

was saying.

"That, my dear, you must ask the doctor," he replied, and again making an evident effort to be affectionate, he said with his lips only (his words clearly did not correspond to his thoughts):

"Merci, chere amie, d'etre venue."*

*"Thank you for coming, my dear."

Princess Mary pressed his hand. The pressure made him wince just perceptibly. He was silent, and she did not know what to say. She now understood what had happened to him two days before. In his words, his tone, and especially in that calm, almost antagonistic look could be felt an estrangement from everything belonging to this world, terrible in one who is alive. Evidently only with an effort did he understand anything living; but it was obvious that he failed to understand, not because he lacked the power to do so but because he understood something else--something the living did not and could not understand--and which wholly occupied his mind.

"There, you see how strangely fate has brought us together," said he, breaking the silence and pointing to Natasha. "She looks after me all the time."

Princess Mary heard him and did not understand how he could say such a thing. He, the sensitive, tender Prince Andrew, how could he say that, before her whom he loved and who loved him? Had he expected to live he could not have said those words in that offensively cold tone. If he had not known that he was dying, how could he have failed to pity her and how could he speak like that in her presence? The only explanation was that he was indifferent, because something else, much more important, had been revealed to him.

The conversation was cold and disconnected and continually broke off.

"Mary came by way of Ryazan," said Natasha.

Prince Andrew did not notice that she called his sister Mary, and only after calling her so in his presence did Natasha notice it herself.

"Really?" he asked.

"They told her that all Moscow has been burned down, and that..."

Natasha stopped. It was impossible to talk. It was plain that he was making an effort to listen, but could not do so.

"Yes, they say it's burned," he said. "It's a great pity," and he gazed straight before him, absently stroking his mustache with his fingers.

"And so you have met Count Nicholas, Mary?" Prince Andrew suddenly said, evidently wishing to speak pleasantly to them. "He wrote here that he took a great liking to you," he went on simply and calmly, evidently unable to understand all the complex significance his words had for living people. "If you liked him too, it would be a good thing for you to get married," he added rather more quickly, as if pleased at having found words he had long been seeking.

Princess Mary heard his words but they had no meaning for her, except as a proof of how far away he now was from everything living.

"Why talk of me?" she said quietly and glanced at Natasha.

Natasha, who felt her glance, did not look at her. All three were again silent.

"Andrew, would you like..." Princess Mary suddenly said in a trembling voice, "would you like to see little Nicholas? He is always talking about you!"

Prince Andrew smiled just perceptibly and for the first time, but Princess Mary, who knew his face so well, saw with horror that he did not smile with pleasure or affection for his son, but with quiet, gentle irony because he thought she was trying what she believed to be the last means of arousing him.

"Yes, I shall be very glad to see him. Is he quite well?"

When little Nicholas was brought into Prince Andrew's room he looked at his father with frightened eyes, but did not cry, because no one else was crying. Prince Andrew kissed him and evidently did not know what to say to him.

When Nicholas had been led away, Princess Mary again went up to her brother, kissed him, and unable to restrain her tears any longer began to cry.

He looked at her attentively.

"Is it about Nicholas?" he asked.

Princess Mary nodded her head, weeping.

"Mary, you know the Gosp..." but he broke off.

"What did you say?"

"Nothing. You mustn't cry here," he said, looking at her with the same cold expression.

When Princess Mary began to cry, he understood that she was crying at the thought that little Nicholas would be left without a father. With a great effort he tried to return to life and to see things from their point of view.

"Yes, to them it must seem sad!" he thought. "But how simple it is.

"The fowls of the air sow not, neither do they reap, yet your Father feedeth them," he said to himself and wished to say to Princess Mary; "but no, they will take it their own way, they won't understand! They can't understand that all those feelings they prize so--all our feelings, all those ideas that seem so important to us, are unnecessary. We cannot understand one another," and he remained silent.

Prince Andrew's little son was seven. He could scarcely read, and knew nothing. After that day he lived through many things, gaining knowledge, observation, and experience, but had he possessed all the faculties he afterwards acquired, he could not have had a better or more profound understanding of the meaning of the scene he had witnessed between his father, Mary, and Natasha, than he had then. He understood it completely, and, leaving the room without crying, went silently up to Natasha who had come out with him and looked shyly at her with his beautiful, thoughtful eyes, then his uplifted, rosy upper lip trembled and leaning his head against her he began to cry.

After that he avoided Dessalles and the countess who caressed him and either sat alone or came timidly to Princess Mary, or to Natasha of whom he seemed even fonder than of his aunt, and clung to them quietly and shyly.

When Princess Mary had left Prince Andrew she fully understood what Natasha's face had told her. She did not speak any more to Natasha of hopes of saving his life. She took turns with her beside his sofa, and did not cry any more, but prayed continually, turning in soul to that Eternal and Unfathomable, whose presence above the dying man was now so evident.

CHAPTER XVI

Not only did Prince Andrew know he would die, but he felt that he was dying and was already half dead. He was conscious of an aloofness from everything earthly and a strange and joyous lightness
of existence. Without haste or agitation he awaited what was coming. That inexorable, eternal, distant, and unknown the presence of which he had felt continually all his life--was now near to him and, by the strange lightness he experienced, almost comprehensible and palpable...

Formerly he had feared the end. He had twice experienced that terribly tormenting fear of death--the end--but now he no longer understood that fear.

He had felt it for the first time when the shell spun like a top before him, and he looked at the fallow field, the bushes, and the sky, and knew that he was face to face with death. When he came to himself after being wounded and the flower of eternal, unfettered love had instantly unfolded itself in his soul as if freed from the bondage of life that had restrained it, he no longer feared death and ceased to think about it.

During the hours of solitude, suffering, and partial delirium he spent after he was wounded, the more deeply he penetrated into the new
principle of eternal love revealed to him, the more he unconsciously detached himself from earthly life. To love everything and everybody and always to sacrifice oneself for love meant not to love anyone, not to live this earthly life. And the more imbued he became with that principle of love, the more he renounced life and the more completely he destroyed that dreadful barrier which--in the absence of such love--stands between life and death. When during those first days

he remembered that he would have to die, he said to himself: "Well, what of it? So much the better!"

But after the night in Mytishchi when, half delirious, he had seen her for whom he longed appear before him and, having pressed her hand to his lips, had shed gentle, happy tears, love for a particular woman again crept unobserved into his heart and once more bound him to life. And joyful and agitating thoughts began to occupy his mind. Recalling the moment at the ambulance station when he had seen Kuragin,
he could not now regain the feeling he then had, but was tormented by the question whether Kuragin was alive. And he dared not inquire.

His illness pursued its normal physical course, but what Natasha referred to when she said: "This suddenly happened," had occurred two days before Princess Mary arrived. It was the last spiritual struggle between life and death, in which death gained the victory. It was the unexpected realization of the fact that he still valued life as presented to him in the form of his love for Natasha, and a last, though ultimately vanquished, attack of terror before the unknown.

It was evening. As usual after dinner he was slightly feverish, and his thoughts were preternaturally clear. Sonya was sitting by the table. He began to doze. Suddenly a feeling of happiness seized him.

"Ah, she has come!" thought he.

And so it was: in Sonya's place sat Natasha who had just come in noiselessly.

Since she had begun looking after him, he had always experienced this physical
consciousness of her nearness. She was sitting in an armchair placed sideways, screening the light of the candle from him, and was knitting a stocking. She had learned to knit stockings since Prince Andrew had casually mentioned that no one nursed the sick so well as old nurses who knit stockings, and that there is something soothing in the knitting of stockings. The needles clicked lightly in her slender, rapidly moving hands, and he could clearly see the thoughtful profile of her drooping face. She moved, and the ball rolled off her knees. She started, glanced round at him, and screening the candle with her hand stooped carefully with a supple and exact movement, picked up the ball, and regained her former position.

He looked at her without moving and saw that she wanted to draw a deep breath after stooping, but refrained from doing so and breathed

cautiously.

At the Troitsa monastery they had spoken of the past, and he had told her that if he lived he would always thank God for his wound which had brought them together again, but after that they never spoke of the future.

"Can it or can it not be?" he now thought as he looked at her and listened to the light click of the steel needles. "Can fate have brought me to her so strangely only for me to die?... Is it possible that the truth of life has been revealed to me only to show me that I have spent my life in falsity? I love her more than anything in the world! But what am I to do if I love her?" he thought, and he involuntarily groaned, from a habit acquired during his sufferings.

On hearing that sound Natasha put down the stocking, leaned nearer to him, and suddenly, noticing his shining eyes, stepped lightly up to him and bent over him.

"You are not asleep?"

"No, I have been looking at you a long time. I felt you come in. No one else gives me that sense of soft tranquillity that you do... that light. I want to weep for joy."

Natasha drew closer to him. Her face shone with rapturous joy.

"Natasha, I love you too much! More than anything in the world."

"And I!"--She turned away for an instant. "Why too much?" she asked.

"Why too much?... Well, what do you, what do you feel in your soul, your whole soul--shall I live? What do you think?"

"I am sure of it, sure!" Natasha almost shouted, taking hold of both his hands with a passionate movement.

He remained silent awhile.

"How good it would be!" and taking her hand he kissed it.

Natasha felt happy and agitated, but at once remembered that this would not do and that he had to be quiet.

"But you have not slept," she said, repressing her joy. "Try to sleep... please!"

He pressed her hand and released it, and she went back to the candle and sat down again in her former position. Twice she turned and looked at him, and her eyes met his beaming at her. She set herself a task on her stocking and resolved not to turn round till it was finished.

Soon he really shut his eyes and fell asleep. He did not sleep long and suddenly awoke with
a start and in a cold perspiration.

As he fell asleep he had still been thinking of the subject that now always occupied his mind--about life and death, and chiefly about death. He felt himself nearer to it.

"Love? What is love?" he thought.

"Love hinders death. Love is life. All, everything that I understand, I understand only because I love. Everything is, everything exists, only because I love. Everything is united by it alone. Love is God, and to die means that I, a particle of love, shall return to the general and eternal source." These thoughts seemed to him comforting. But they were only thoughts. Something was lacking in them, they were not clear, they were too one-sidedly personal and brain-spun. And there was the former agitation and obscurity. He fell asleep.

He dreamed that he was lying in the room he really was in, but that he was quite well and unwounded. Many various, indifferent, and insignificant people appeared before him. He talked to them and discussed something
trivial. They were preparing to go away somewhere.
Prince Andrew dimly realized that all this was trivial and that he had more important cares, but he continued to speak, surprising them by empty witticisms. Gradually, unnoticed, all these persons began to disappear and a single question, that of the closed door, superseded all else. He rose and went to the door to bolt and lock it. Everything depended on whether he was, or was not, in time to lock it. He went, and tried to hurry, but his legs refused to move and he knew he would not be in time to lock the door though he painfully strained all his powers. He was seized by an agonizing fear. And that fear was the fear of death. It stood behind the door. But just when he was clumsily creeping toward the door, that dreadful something on the other side was already pressing against it and forcing its way in. Something not human--death--was breaking in through that door, and had to be kept out. He seized the door, making a final effort
to hold it
back--to lock it was no longer possible--but his efforts were weak and clumsy and the door, pushed from behind by that terror, opened and

closed again.

Once again it pushed from outside. His last superhuman efforts were vain and both halves of the door noiselessly opened. It entered, and it was death, and Prince Andrew died.

But at the instant he died, Prince Andrew remembered that he was asleep, and at the very instant he died, having made an effort, he awoke.

"Yes, it was death! I died--and woke up. Yes, death is an awakening!" And all at once it grew light in his soul and the veil that had till then concealed the unknown was lifted from his spiritual vision. He felt as if powers till then confined within him had been liberated, and that strange lightness did not again leave him.

When, waking in a cold perspiration, he moved on the divan, Natasha went up and asked him what was the matter. He did not answer and looked at her strangely, not understanding.

That was what
had happened to him two days before Princess Mary's arrival. From that day, as the doctor expressed it, the wasting fever assumed a malignant character, but what the doctor said did not interest Natasha, she saw the terrible moral symptoms which to her were more convincing.

From that day an awakening from life came to Prince Andrew together with his awakening from sleep. And compared to the duration of life it did not seem to him slower than an awakening from sleep compared to the duration of a dream.

There was nothing terrible or violent in this comparatively slow awakening.

His last days and hours passed in an ordinary and simple way. Both Princess Mary and Natasha, who did not leave him, felt this. They did not weep or shudder and during these last days they themselves felt that they were not attending on him (he was no longer there, he had left them) but on what reminded them most closely of him--his body. Both felt this so strongly that the outward and terrible side of death did
not affect them and they did not feel it necessary to foment their grief. Neither in his presence nor out of it did they weep, nor did they ever talk to one another about him. They felt that they could not express in words what they understood.

They both saw that he was sinking slowly and quietly, deeper and

deeper, away from them, and they both knew that this had to be so and that it was right.

He confessed, and received communion: everyone came to take leave of him. When they brought his son to him, he pressed his lips to the boy's and turned away, not because he felt it hard and sad (Princess Mary and Natasha understood that) but simply because he thought it was all that was required of him, but when they told him to bless the boy, he did what was demanded and looked round as if asking whether there was anything else he should do.

When the last convulsions of the body, which the spirit was leaving, occurred, Princess Mary and Natasha were present.

"Is it over?" said Princess Mary
when his body had for a few minutes
lain motionless, growing cold before them. Natasha went up, looked at the dead eyes, and hastened to close them. She closed them but did not kiss them, but clung to that which reminded her most nearly of him--his body.

"Where has he gone? Where is he now?..."

When the body, washed and dressed, lay in the coffin on a table, everyone came to take leave of him and they all wept.

Little Nicholas cried because his heart was rent by painful perplexity. The countess and Sonya cried from pity for Natasha and because he was no more. The old count cried because he felt that before long, he, too, must take the same terrible step.

Natasha and Princess Mary also wept now, but not because of their own personal grief; they wept with a reverent and softening emotion which had taken possession of their souls at the consciousness of the simple and solemn mystery of death that had been accomplished in their presence.

BOOK THIRTEEN: 1812

CHAPTER I

Man's
mind cannot grasp the causes of events in their
completeness, but the desire to find those causes is implanted in
man's soul. And without considering the multiplicity and complexity of
the conditions any one of which taken separately may seem to be the
cause, he snatches at the first approximation to a cause that seems to
him intelligible and says: "This is the cause!" In historical events
(where the actions of men are the subject of observation) the first
and most primitive approximation to present itself was the will of the
gods and, after that, the will of those who stood in the most
prominent position--the heroes of history. But we need only
penetrate to the essence of any historic event--which lies in the
activity of the general mass of men who take part in it--to be
convinced that the will of the historic hero does not control the
actions of the mass but is itself continually controlled. It may
seem to be a matter of indifference whether we understand the
meaning of historical
events this way or that; yet there is the same
difference between a man who says that the people of the West moved on
the East because Napoleon wished it and a man who says that this
happened because it had to happen, as there is between those who
declared that the earth was stationary and that the planets moved
round it and those who admitted that they did not know what upheld the
earth, but knew there were laws directing its movement and that of the
other planets. There is, and can be, no cause of an historical event
except the one cause of all causes. But there are laws directing
events, and some of these laws are known to us while we are
conscious of others we cannot comprehend. The discovery of these
laws is only possible when we have quite abandoned the
attempt to find the cause in the will of some one man, just as the
discovery of the laws of the motion of the planets was possible only
when men abandoned the conception of the fixity of the earth.

The historians consider that,
next to the battle of Borodino and the
occupation of Moscow by the enemy and its destruction by fire, the
most important episode of the war of 1812 was the movement of the
Russian army from the Ryazana to the Kaluga road and to the Tarutino
camp--the so-called flank march across the Krasnaya Pakhra River. They
ascribe the glory of that achievement of genius to different men and
dispute as to whom the honor is due. Even foreign historians,
including the French, acknowledge the genius of the Russian commanders
when they speak of that flank march. But it is hard to understand
why military writers, and following them others, consider this flank
march to be the profound conception of some one man who saved Russia
and destroyed Napoleon. In the first place it is hard to understand

where the profundity and genius of this movement lay, for not much mental effort was needed to see that the best position for an army when it is not being attacked is where there are most provisions; and even a dull
boy of thirteen could have guessed that the best
position for an army after its retreat from Moscow in 1812 was on the Kaluga road. So it is impossible to understand by what reasoning the historians reach the conclusion that this maneuver was a profound one. And it is even more difficult to understand just why they think that this maneuver was calculated to save Russia and destroy the French; for this flank march, had it been preceded, accompanied, or followed by other circumstances, might have proved ruinous to the Russians and salutary for the French. If the position of the Russian army really began to improve from the time of that march, it does not at all follow that the march was the cause of it.

That flank march might not only have failed to give any advantage to the Russian army, but might in other circumstances have led to its destruction. What would have happened had Moscow not burned down? If Murat had not lost sight of the Russians? If Napoleon had not remained inactive?
If the Russian army at Krasnaya Pakhra had given battle as
Bennigsen and Barclay advised? What would have happened had the French attacked the Russians while they were marching beyond the Pakhra? What would have happened if on approaching Tarutino, Napoleon had attacked the Russians with but a tenth of the energy he had shown when he attacked them at Smolensk? What would have happened had the French moved on Petersburg?... In any of these eventualities the flank march that brought salvation might have proved disastrous.

The third and most incomprehensible thing is that people studying history deliberately avoid seeing that this flank march cannot be attributed to any one man, that no one ever foresaw it, and that in reality, like the retreat from Fili, it did not suggest itself to anyone in its entirety, but resulted--moment by moment, step by step, event by event--from an endless number of most diverse circumstances and was only seen in its entirety when it had been accomplished and
belonged to the past.

At the council at Fili the prevailing thought in the minds of the Russian commanders was the one naturally suggesting itself, namely, a direct retreat by the Nizhni road. In proof of this there is the fact that the majority of the council voted for such a retreat, and above all there is the well-known conversation after the council, between the commander in chief and Lanskoy, who was in charge of the commissariat department. Lanskoy informed the commander in chief that the army supplies were for the most part stored along the Oka

in the Tula and Ryazan provinces, and that if they retreated on Nizhni the army would be separated from its supplies by the broad river Oka, which cannot be crossed early in winter. This was the first indication of the necessity of deviating from what had previously seemed the most natural course--a direct retreat on Nizhni-Novgorod. The army turned more to the south, along the Ryazan road and nearer to its supplies. Subsequently the inactivity of the French (who even lost sight of the Russian army), concern for the safety of the arsenal at Tula, and especially the advantages of drawing nearer to its supplies caused the army to turn still further south to the Tula road. Having crossed over, by a forced march, to the Tula road beyond the Pakhra, the Russian commanders intended to remain at Podolsk and had no thought of the Tarutino position; but innumerable circumstances and the reappearance of French troops who had for a time lost touch with the Russians, and projects of giving battle, and above all the abundance of provisions in Kaluga province, obliged our army to turn still more to the south and to cross from the Tula to the Kaluga road and go to Tarutino, which was between the roads along which those supplies lay. Just as it is impossible to say when it was decided to abandon Moscow, so it is impossible to say precisely when, or by whom, it was decided to move to Tarutino. Only when the army had got there, as the result of innumerable and varying forces, did people begin to assure themselves that they had desired this movement and long ago foreseen its result.

CHAPTER II

The famous flank movement merely consisted in this: after the advance of the French had ceased, the Russian army, which had been continually retreating straight back from the invaders, deviated from that direct course and, not finding itself pursued, was naturally drawn toward the district where supplies were abundant.

If instead of imagining to ourselves commanders of genius leading the Russian army, we picture that army without any leaders, it could not have done anything but make a return movement toward Moscow, describing an arc in the direction where most provisions were to be found and where the country was richest.

That movement from the Nizhni to the Ryazan, Tula, and Kaluga roads was so natural that even the Russian marauders moved in that

direction, and demands were sent from Petersburg for Kutuzov to take his
army that way. At Tarutino Kutuzov received what was almost a reprimand from the Emperor for having moved his army along the Ryazan road, and the Emperor's letter indicated to him the very position he had already occupied near Kaluga.

Having rolled like a ball in the direction of the impetus given by the whole campaign and by the battle of Borodino, the Russian army-when the strength of that impetus was exhausted and no fresh push was received--assumed the position natural to it.

Kutuzov's merit lay, not in any strategic maneuver of genius, as it is called, but in the fact that he alone understood the significance of what had happened. He alone then understood the meaning of the French army's inactivity, he alone continued to assert that the battle of Borodino had been a victory, he alone--who as commander in chief might have been expected to be eager to attack--employed his whole strength to restrain the Russian army from useless engagements.

The beast wounded at Borodino was lying
where the fleeing hunter had
left him; but whether he was still alive, whether he was strong and merely lying low, the hunter did not know. Suddenly the beast was heard to moan.

The moan of that wounded beast (the French army) which betrayed its calamitous condition was the sending of Lauriston to Kutuzov's camp with overtures for peace.

Napoleon, with his usual assurance that whatever entered his head was right, wrote to Kutuzov the first words that occurred to him, though they were meaningless.

MONSIEUR LE PRINCE KOUTOUZOV: I am sending one of my adjutants-general to discuss several interesting questions with you. I beg your Highness to credit what he says to you, especially when he expresses the sentiment of esteem and special regard I have long entertained for your person. This letter having no other object, I pray God, monsieur le Prince Koutouzov, to keep you in His holy and gracious protection!

NAPOLEON

MOSCOW, OCTOBER 30, 1812

Kutuzov replied: "I should be cursed by
posterity were I looked on
as the initiator of a settlement of any sort. Such is the present
spirit of my nation." But he continued to exert all his powers to
restrain his troops from attacking.

During the month that the French troops were pillaging in Moscow and
the Russian troops were quietly encamped at Tarutino, a change had
taken place in the relative strength of the two armies--both in spirit
and in number--as a result of which the superiority had passed to
the Russian side. Though the condition and numbers of the French
army were unknown to the Russians, as soon as that change occurred the
need of attacking at once showed itself by countless signs. These
signs were: Lauriston's mission; the abundance of provisions at
Tarutino; the reports coming in from all sides of the inactivity and
disorder of the French; the flow of recruits to our regiments; the
fine weather; the long rest the Russian soldiers had enjoyed, and
the impatience to do what they had been assembled for, which
usually
shows itself in an army that has been resting; curiosity as to what
the French army, so long lost sight of, was doing; the boldness with
which our outposts now scouted close up to the French stationed at
Tarutino; the news of easy successes gained by peasants and
guerrilla troops over the French, the envy aroused by this; the desire
for revenge that lay in the heart of every Russian as long as the
French were in Moscow, and (above all) a dim consciousness in every
soldier's mind that the relative strength of the armies had changed
and that the advantage was now on our side. There was a substantial
change in the relative strength, and an advance had become inevitable.
And at once, as a clock begins to strike and chime as soon as the
minute hand has completed a full circle, this change was shown by an
increased activity, whirring, and chiming in the higher spheres.

CHAPTER III

The Russian army was commanded by Kutuzov and his staff, and also by
the Emperor from Petersburg.
Before the news of the abandonment of
Moscow had been received in Petersburg, a detailed plan of the whole
campaign had been drawn up and sent to Kutuzov for his guidance.
Though this plan had been drawn up on the supposition that Moscow
was still in our hands, it was approved by the staff and accepted as a

basis for action. Kutuzov only replied that movements arranged from a distance were always difficult to execute. So fresh instructions were sent for the solution of difficulties that might be encountered, as well as fresh people who were to watch Kutuzov's actions and report upon them.

Besides this, the whole staff of the Russian army was now reorganized. The posts left vacant by Bagration, who had been killed, and by Barclay, who had gone away in dudgeon, had to be filled. Very serious consideration was given to the question whether it would be better to put A in B's place and B in D's, or on the contrary to put D in A's place, and so on--as if anything more than A's or B's satisfaction
depended on this.

As a result of the hostility between Kutuzov and Bennigsen, his Chief of Staff, the presence of confidential representatives of the Emperor, and these transfers, a more than usually complicated play of parties was going on among the staff of the army. A was undermining B, D was undermining C, and so on in all possible combinations and permutations. In all these plottings the subject of intrigue was generally the conduct of the war, which all these men believed they were directing; but this affair of the war went on independently of them, as it had to go: that is, never in the way people devised, but flowing always from the essential attitude of the masses. Only in the highest spheres did all these schemes, crossings, and interminglings appear to be a true reflection of what had to happen.

Prince Michael Ilarionovich! (wrote the Emperor on the second of October in a letter that reached Kutuzov after the battle at Tarutino) Since September 2 Moscow has been in
the hands of the enemy. Your last
reports were written on the twentieth, and during all this time not only has no action been taken against the enemy or for the relief of the ancient capital, but according to your last report you have even retreated farther. Serpukhov is already occupied by an enemy detachment and Tula with its famous arsenal so indispensable to the army, is in danger. From General Wintzingerode's reports, I see that an enemy corps of ten thousand men is moving on the Petersburg road. Another corps of several thousand men is moving on Dmitrov. A third has advanced along the Vladimir road, and a fourth, rather considerable detachment is stationed between Ruza and Mozhaysk. Napoleon himself was in Moscow as late as the twenty-fifth. In view of all this information, when the enemy has scattered his forces in large detachments, and with Napoleon and his Guards in Moscow, is it possible that the enemy's forces confronting you are so considerable as not to allow of your taking

the offensive? On the contrary, he is
probably pursuing you with detachments, or at most with an army
corps much weaker than the army entrusted to you. It would seem
that, availing yourself of these circumstances, you might
advantageously attack a weaker one and annihilate him, or at least
oblige him to retreat, retaining in our hands an important part of the
provinces now occupied by the enemy, and thereby averting danger
from Tula and other towns in the interior. You will be responsible
if the enemy is able to direct a force of any size against
Petersburg to threaten this capital in which it has not been
possible to retain many troops; for with the army entrusted to you,
and acting with resolution and energy, you have ample means to avert
this fresh calamity. Remember that you have still to answer to our
offended country for the loss of Moscow. You have experienced my
readiness to reward you. That readiness will not weaken in me, but I
and Russia have a right to expect from you
all the zeal, firmness, and
success which your intellect, military talent, and the courage of
the troops you command justify us in expecting.

But by the time this letter, which proved that the real relation
of the forces had already made itself felt in Petersburg, was
dispatched, Kutuzov had found himself unable any longer to restrain
the army he commanded from attacking and a battle had taken place.

On the second of October a Cossack, Shapovalov, who was out
scouting, killed one hare and wounded another. Following the wounded
hare he made his way far into the forest and came upon the left
flank of Murat's army, encamped there without any precautions. The
Cossack laughingly told his comrades how he had almost fallen into the
hands of the French. A cornet, hearing the story, informed his
commander.

The Cossack was sent for and questioned. The Cossack officers wished
to take advantage of this chance to capture some horses, but one of
the superior officers, who was acquainted with the
higher authorities,
reported the incident to a general on the staff. The state of
things on the staff had of late been exceedingly strained. Ermolov had
been to see Bennigsen a few days previously and had entreated him to
use his influence with the commander in chief to induce him to take
the offensive.

"If I did not know you I should think you did not want what you
are asking for. I need only advise anything and his Highness is sure
to do the opposite," replied Bennigsen.

The Cossack's report, confirmed by horse patrols who were sent out, was the final proof that events had matured. The tightly coiled spring was released, the clock began to whirr and the chimes to play. Despite all his supposed power, his intellect, his experience, and his knowledge of men, Kutuzov--having taken into consideration the Cossack's report, a note from Bennigsen who sent personal reports to the Emperor, the wishes he supposed the Emperor to hold, and the fact that all the generals expressed the same wish--could no longer check the inevitable movement, and gave the order to do what he regarded as useless and harmful--gave his approval, that is, to the accomplished fact.

CHAPTER IV

Bennigsen's note and the Cossack's information that the left flank of the French was unguarded were merely final indications that it was necessary to order an attack, and it was fixed for the fifth of October.

On the morning of the fourth of October Kutuzov signed the dispositions. Toll read them to Ermolov, asking him to attend to the further arrangements.

"All right--all right. I haven't time just now," replied Ermolov, and left the hut.

The dispositions drawn up by Toll were very good. As in the Austerlitz dispositions, it was written--though not in German this time:

"The First Column will march here and here," "the Second Column will march there and there," and so on; and on paper, all these columns arrived at their places at the appointed time and destroyed the enemy. Everything had been admirably thought out as is usual in dispositions, and as is always the case, not a single column reached its place at the appointed time.

When the necessary number of copies of the dispositions had been prepared, an officer was summoned and sent to deliver them to Ermolov to deal with. A young officer of the Horse Guards, Kutuzov's orderly, pleased at the importance of the mission entrusted to him,

went to Ermolov's quarters.

"Gone away," said Ermolov's orderly.

The officer of the Horse Guards went to a general with whom Ermolov was often to be found.

"No, and the general's out too."

The officer, mounting his horse, rode off to someone else.

"No, he's gone out."

"If only they don't make me responsible for this delay! What a nuisance it is!" thought the officer, and he rode round the whole camp. One man said he had seen Ermolov ride past with some other generals, others said he must have returned home. The officer searched till six o'clock in the evening without even stopping to eat. Ermolov was nowhere to be found and no one knew where he was. The officer snatched a little food at a comrade's, and rode again to the vanguard to find Miloradovich. Miloradovich too was away, but here he was told that he had gone to a ball at General Kikin's and that Ermolov was probably there too.

"But where is it?"

"Why, there, over at Echkino," said a Cossack officer, pointing to a country house in the far distance.

"What, outside our line?"

"They've put two regiments as outposts, and they're having such a spree there, it's awful! Two bands and three sets of singers!"

The officer rode out beyond our lines to Echkino. While still at a distance he heard as he rode the merry sounds of a soldier's dance song proceeding from the house.

"In the meadows... in the meadows!" he heard, accompanied by whistling and the sound of a torban, drowned every now and then by shouts. These sounds made his spirits rise, but at the same time he was afraid that he would be blamed for not having executed sooner the important order entrusted to him. It was already past eight o'clock. He dismounted and went up into the porch of a large country house which had remained intact between the Russian and French forces. In the refreshment room and the hall, footmen were bustling about with

wine and viands. Groups of singers stood outside the windows. The officer was admitted and immediately saw all the chief generals of the army together, and among them Ermolov's big imposing figure. They all had their coats unbuttoned and were standing in a semicircle with flushed and animated faces, laughing loudly. In the middle of the room a short handsome general with a red face was dancing the trepak with much spirit and agility.

"Ha, ha, ha! Bravo, Nicholas Ivanych! Ha, ha, ha!"

The officer felt that by arriving with important orders at such a moment he was doubly to blame, and he would have preferred to wait; but one of the generals espied him and, hearing what he had come about, informed Ermolov.

Ermolov
came forward with a frown on his face and, hearing what the officer had to say, took the papers from him without a word.

"You think he went off just by chance?" said a comrade, who was on the staff that evening, to the officer of the Horse Guards, referring to Ermolov. "It was a trick. It was done on purpose to get Konovnitsyn into trouble. You'll see what a mess there'll be tomorrow."

CHAPTER V

Next day the decrepit Kutuzov, having given orders to be called early, said his prayers, dressed, and, with an unpleasant consciousness of having to direct a battle he did not approve of, got into his caleche and drove from Letashovka (a village three and a half miles from Tarutino) to the place where the attacking columns were to meet. He sat in the caleche, dozing and waking up by turns, and listening for any sound of firing on the right as an indication that the action had begun. But all was still quiet. A damp dull autumn morning was just dawning. On approaching Tarutino
Kutuzov noticed
cavalrymen leading their horses to water across the road along which he was driving. Kutuzov looked at them searchingly, stopped his carriage, and inquired what regiment they belonged to. They belonged to a column that should have been far in front and in ambush long before then. "It may be a mistake," thought the old commander in

chief. But a little further on he saw infantry regiments with their arms piled and the soldiers, only partly dressed, eating their rye porridge and carrying fuel. He sent for an officer. The officer reported that no order to advance had been received.

"How! Not rec..." Kutuzov began, but checked himself immediately and sent for a senior officer. Getting out of his caleche, he waited with drooping head and breathing heavily, pacing silently up and down. When Eykhen, the officer of the general staff whom he had summoned, appeared, Kutuzov went purple in the face, not because that officer was to blame for the mistake, but because he was an object of sufficient importance for him to vent his wrath on. Trembling and panting the old man fell into that state of fury in which he sometimes used to roll on the ground, and he fell upon Eykhen, threatening him with his hands, shouting and loading him with gross abuse. Another man, Captain Brozin, who happened to turn up and who was not at all to blame, suffered the same fate.

"What sort of another blackguard are you? I'll have you shot! Scoundrels!" yelled Kutuzov in a hoarse voice, waving his arms and reeling.

He was suffering physically. He, the commander in chief, a Serene Highness who everybody said possessed powers such as no man had ever had in Russia, to be placed in this position--made the laughingstock of the whole army! "I needn't have been in such a hurry to pray about today, or have kept awake thinking everything over all night," thought he to himself. "When I was a chit of an officer no one would have dared to mock me so... and now!" He was in a state of physical suffering as if from corporal punishment, and could not avoid expressing it by cries of anger and distress. But his strength soon began to fail him, and looking about him, conscious of having said much that was amiss, he again got into his caleche and drove back in silence.

His wrath, once expended, did not return, and blinking feebly he listened to excuses and self-justifications (Ermolov did not come to see him till the next day) and to the insistence of Bennigsen, Konovnitsyn, and Toll that the movement that had miscarried should be executed next day. And once more Kutuzov had to consent.

CHAPTER VI

Next day the troops assembled in their appointed places in the evening and advanced during the night. It was an autumn night with dark purple clouds, but no rain. The ground was damp but not muddy, and the troops advanced noiselessly, only occasionally a jingling of the artillery could be faintly heard. The men were forbidden to talk out loud, to smoke their pipes, or to strike a light, and they tried to prevent their horses neighing. The secrecy of the undertaking heightened its charm and they marched gaily. Some columns, supposing they had reached their destination, halted, piled arms, and settled down on the cold ground, but the majority marched all night and arrived at places where they evidently should not have been.

Only Count Orlov-Denisov with his Cossacks (the least important detachment of all) got to his appointed place at the right time. This detachment halted at the outskirts of a forest, on the path leading from the village of Stromilova to Dmitrovsk.

Toward dawn, Count Orlov-Denisov, who had dozed off, was awakened by a deserter from the French army being brought to him. This was a Polish sergeant of Poniatowski's corps, who explained in Polish that he had come over because he had been slighted in the service: that he ought long ago to have been made an officer, that he was braver than any of them, and so he had left them and wished to pay them out.

He said that Murat was spending the night less than a mile from where they were, and that if they would let him have a convoy of a hundred men he would capture him alive. Count Orlov-Denisov consulted his fellow officers.

The offer was too tempting to be refused. Everyone volunteered to go and everybody advised making the attempt. After much disputing and arguing, Major-General Grekov with two Cossack regiments decided to go with the Polish sergeant.

"Now, remember," said Count Orlov-Denisov to the sergeant at parting, "if you have been lying I'll have you hanged like a dog; but if it's true you shall have a hundred gold pieces!"

Without replying, the sergeant, with a resolute air, mounted and rode away with Grekov whose men had quickly assembled. They disappeared into the forest, and Count Orlov-Denisov, having seen Grekov off, returned, shivering from the freshness of the early dawn and excited by what he had undertaken on his own responsibility, and began looking at the enemy

camp, now just visible in the deceptive
light of dawn and the dying campfires. Our columns ought to have begun to appear on an open declivity to his right. He looked in that direction, but though the columns would have been visible quite far off, they were not to be seen. It seemed to the count that things were beginning to stir in the French camp, and his keen-sighted adjutant confirmed this.

"Oh, it is really too late," said Count Orlov, looking at the camp.

As often happens when someone we have trusted is no longer before our eyes, it suddenly seemed quite clear and obvious to him that the sergeant was an impostor, that he had lied, and that the whole Russian attack would be ruined by the absence of those two regiments, which he would lead away heaven only knew where. How could one capture a commander in chief from among such a mass of troops!

"I am sure that rascal was lying," said the count.

"They can still be called back," said one of his suite, who like
Count Orlov felt distrustful
of the adventure when he looked at the
enemy's camp.

"Eh? Really... what do you think? Should we let them go on or not?"

"Will you have them fetched back?"

"Fetch them back, fetch them back!" said Count Orlov with sudden determination, looking at his watch. "It will be too late. It is quite light."

And the adjutant galloped through the forest after Grekov. When Grekov returned, Count Orlov-Denisov, excited both by the abandoned attempt and by vainly awaiting the infantry columns that still did not appear, as well as by the proximity of the enemy, resolved to advance. All his men felt the same excitement.

"Mount!" he commanded in a whisper. The men took their places and crossed themselves.... "Forward, with God's aid!"

"Hurrah-ah-ah!" reverberated in the forest, and the Cossack companies, trailing their lances and advancing one after another as if poured out of a sack, dashed gaily across the brook toward the camp.

One desperate, frightened yell from the first French soldier
who saw
the Cossacks, and all who were in the camp, undressed and only just

waking up, ran off in all directions, abandoning cannons, muskets, and horses.

Had the Cossacks pursued the French, without heeding what was behind and around them, they would have captured Murat and everything there. That was what the officers desired. But it was impossible to make the Cossacks budge when once they had got booty and prisoners. None of them listened to orders. Fifteen hundred prisoners and thirty-eight guns were taken on the spot, besides standards and (what seemed most important to the Cossacks) horses, saddles, horsecloths, and the like. All this had to be dealt with, the prisoners and guns secured, the booty divided--not without some shouting and even a little themselves--and it was on this that the Cossacks all busied themselves.

The French, not being farther pursued, began to recover themselves: they formed into detachments and began firing. Orlov-Denisov, still waiting for the other columns to arrive, advanced no further.

Meantime, according to the dispositions which said that "the First Column will march" and so on, the infantry of the belated columns, commanded by Bennigsen and directed by Toll, had started in due order and, as always happens, had got somewhere, but not to their appointed places. As always happens the men, starting cheerfully, began to halt; murmurs were heard, there was a sense of confusion, and finally a backward movement. Adjutants and generals galloped about, shouted, grew angry, quarreled, said they had come quite wrong and were late, gave vent to a little abuse, and at last gave it all up and went forward, simply to get somewhere. "We shall get somewhere or other!" And they did indeed get somewhere, though not to their right places; a few eventually even got to their right place, but too late to be of any use and only in time to be fired at. Toll, who in this battle played the part of Weyrother at Austerlitz, galloped assiduously from place to place, finding everything upside down everywhere. Thus he stumbled on Bagovut's corps in a wood when it was already broad daylight, though the corps should long before have joined Orlov-Denisov. Excited and vexed by the failure and supposing that someone must be responsible for it, Toll galloped up to the commander of the corps and began upbraiding him severely, saying that he ought to be shot. General Bagovut, a fighting old soldier of placid temperament, being also upset by all the delay, confusion, and cross-purposes, fell into a rage to everybody's surprise and quite contrary to his usual character and said disagreeable things to Toll.

"I prefer not to take lessons from anyone, but I can die with my men

as well as anybody," he said, and advanced with a single division.

Coming out onto a field under the enemy's fire, this brave general went straight ahead, leading his men under fire, without considering in his agitation whether going into action now, with a single division,
would be of any use or no. Danger, cannon balls, and bullets were just what he needed in his angry mood. One of the first bullets killed him, and other bullets killed many of his men. And his division remained under fire for some time quite uselessly.

CHAPTER VII

Meanwhile another column was to have attacked the French from the front, but Kutuzov accompanied that column. He well knew that nothing but confusion would come of this battle undertaken against his will, and as far as was in his power held the troops back. He did not advance.

He rode silently on his small gray horse, indolently answering suggestions that they should attack.

"The word attack is always on your tongue, but you don't see that we are unable to execute complicated maneuvers," said he to Miloradovich who asked permission to advance.

"We couldn't take Murat prisoner this morning or get to the place in time, and nothing can be done now!" he replied to someone else.

When Kutuzov was informed that at the French
rear--where according
to the reports of the Cossacks there had previously been nobody--there were now two battalions of Poles, he gave a sidelong glance at Ermolov who was behind him and to whom he had not spoken since the previous day.

"You see! They are asking to attack and making plans of all kinds, but as soon as one gets to business nothing is ready, and the enemy, forewarned, takes measures accordingly."

Ermolov screwed up his eyes and smiled faintly on hearing these words. He understood that for him the storm had blown over, and that Kutuzov would content himself with that hint.

"He's having a little fun at my expense," said Ermolov softly, nudging with his knee Raevski who was at his side.

Soon after this, Ermolov moved up to Kutuzov and respectfully remarked:

"It is not too late yet, your Highness--the enemy has not gone away- if you were to order an attack! If not, the Guards will not so much as see a little smoke."

Kutuzov did not reply, but when they reported to him that Murat's troops were in retreat he ordered an advance, though at every hundred paces he halted for three quarters of an hour.

The whole battle consisted in what Orlov-Denisov's Cossacks had done: the rest of the army merely lost some hundreds of men uselessly.

In consequence of this battle Kutuzov received a diamond decoration, and Bennigsen some diamonds and a hundred thousand rubles, others also received pleasant recognitions corresponding to their various grades, and following the battle fresh changes were made in the staff.

"That's how everything is done with us, all topsy-turvy!" said the Russian officers and generals after the Tarutino battle, letting it be understood that some fool there is doing things all wrong but that we ourselves should not have done so, just as people speak today. But people who talk like that either do not know what they are talking about or deliberately deceive themselves. No battle--Tarutino, Borodino, or Austerlitz--takes place as those who planned it anticipated. That is an essential condition.

A countless number of free forces (for nowhere is man freer than during a battle, where it is a question of life and death) influence the course taken by the fight, and that course never can be known in advance and never coincides with the direction of any one force.

If many simultaneously and variously directed forces act on a given body, the direction of its motion cannot coincide with any one of those forces, but will always be a mean--what in mechanics is represented by the diagonal of a parallelogram of forces.

If in the descriptions given by historians, especially French ones, we find their wars and battles carried out in accordance with previously formed plans, the only conclusion to be drawn is that those descriptions are false.

The battle of Tarutino obviously did not attain the aim Toll had in view--to lead the troops into action in the order prescribed by the dispositions; nor that which Count Orlov-Denisov may have had in view- to take Murat prisoner; nor the result of immediately destroying the whole corps, which Bennigsen and others may have had in view; nor the aim of the officer who wished to go into action to distinguish himself; nor that of the Cossack who wanted more booty than he got, and so on. But if the aim of the battle was what actually resulted and what all the Russians of that day desired--to drive the French out of Russia and destroy their army--it is quite clear that the battle of Tarutino, just because of its incongruities, was exactly what was wanted at that stage of the campaign. It would be difficult and even impossible to imagine any result more opportune than the actual outcome of this battle. With a minimum of effort and insignificant losses, despite the greatest confusion, the most important results of the whole campaign were attained: the transition from retreat to advance, an exposure of the weakness of the French, and the administration of that shock which Napoleon's army had only awaited to begin its flight.

CHAPTER VIII

Napoleon enters Moscow after the brilliant victory de la Moskowa; there can be no doubt about the victory for the battlefield remains in the hands of the French. The Russians retreat and abandon their ancient capital. Moscow, abounding in provisions, arms, munitions, and incalculable wealth, is in Napoleon's hands. The Russian army, only half the strength of the French, does not make a single attempt to attack for a whole month. Napoleon's position is most brilliant. He can either fall on the Russian army with double its strength and destroy it; negotiate an advantageous peace, or in case of a refusal make a menacing move on Petersburg, or even, in the case of a reverse, return to Smolensk or Vilna; or remain in Moscow; in short, no special genius would seem to be required to retain the brilliant position the French held at that time. For that, only very simple and easy steps were necessary: not to allow the troops to loot, to prepare winter clothing--of which there was sufficient in Moscow for the whole army--and methodically to collect the provisions, of which (according to the French historians) there were enough in Moscow to

supply the whole army for six months. Yet Napoleon, that greatest of all geniuses, who the historians declare had control of the army, took none of these steps.

He not merely did nothing of the kind, but on the contrary he used his power to select the most foolish and ruinous of all the courses open to him. Of all that Napoleon might have done: wintering in Moscow, advancing on Petersburg or on Nizhni-Novgorod, or retiring by a more northerly or more southerly route (say by the road Kutuzov afterwards took), nothing more stupid or disastrous can be imagined than what he actually did. He remained in Moscow till October, letting the troops plunder the city; then, hesitating whether to leave a garrison behind him, he quitted Moscow, approached Kutuzov without joining battle, turned
to the right and reached Malo-Yaroslavets,
again without attempting to break through and take the road Kutuzov took, but retiring instead to Mozhaysk along the devastated Smolensk road. Nothing more stupid than that could have been devised, or more disastrous for the army, as the sequel showed. Had Napoleon's aim been to destroy his army, the most skillful strategist could hardly have devised any series of actions that would so completely have accomplished that purpose, independently of anything the Russian army might do.

Napoleon, the man of genius, did this! But to say that he destroyed his army because he wished to, or because he was very stupid, would be as unjust as to say that he had brought his troops to Moscow because he wished to and because he was very clever and a genius.

In both cases his personal activity, having no more force than the personal activity of any soldier, merely coincided with the laws that guided the event.

The historians quite falsely represent Napoleon's
faculties as
having weakened in Moscow, and do so only because the results did not justify his actions. He employed all his ability and strength to do the best he could for himself and his army, as he had done previously and as he did subsequently in 1813. His activity at that time was no less astounding than it was in Egypt, in Italy, in Austria, and in Prussia. We do not know for certain in how far his genius was genuine in Egypt--where forty centuries looked down upon his grandeur--for his great exploits there are all told us by Frenchmen. We cannot accurately estimate his genius in Austria or Prussia, for we have to draw our information from French or German sources, and the incomprehensible surrender of whole corps without

fighting and of fortresses without a siege must incline Germans to recognize his genius as the only explanation of the war carried on in Germany. But we, thank God, have no need to recognize his genius in order to hide our shame. We have paid for the right to look at the matter plainly and simply, and we will not abandon that right.

His activity in Moscow was as amazing and as full of genius as elsewhere. Order after order order and plan after plan were issued by him from the time he entered Moscow till the time he left it. The absence of citizens and of a deputation, and even the burning of Moscow, did not disconcert him. He did not lose sight either of the welfare of his army or of the doings of the enemy, or of the welfare of the people of Russia, or of the direction of affairs in Paris, or of diplomatic considerations concerning the terms of the anticipated peace.

CHAPTER IX

With regard to military matters, Napoleon immediately on his entry into Moscow gave General Sabastiani strict orders to observe the movements of the Russian army, sent army corps out along the different roads, and charged Murat to find Kutuzov. Then he gave careful directions about the fortification of the Kremlin, and drew up a brilliant plan for a future campaign over the whole map of Russia.

With regard to diplomatic questions, Napoleon summoned Captain Yakovlev, who had been robbed and was in rags and did not know how to get out of Moscow, minutely explained to him his whole policy and his magnanimity, and having written a letter to the Emperor Alexander in which he considered it his duty to inform his Friend and Brother that Rostopchin had managed affairs badly in Moscow, he dispatched Yakovlev to Petersburg.

Having similarly explained his views and his magnanimity to Tutolmin, he dispatched that old man also to Petersburg to negotiate.

With regard to legal matters, immediately after the fires he gave orders to find and execute the incendiaries. And the scoundrel Rostopchin was punished by an order to burn down his houses.

With regard to administrative matters, Moscow was granted a

constitution. A municipality was established and the following announcement issued:

INHABITANTS OF MOSCOW!

Your misfortunes are cruel, but His Majesty
the Emperor and King
desires to arrest their course. Terrible examples have taught you how he punishes disobedience and crime. Strict measures have been taken to put an end to disorder and to re-establish public security. A paternal administration, chosen from among yourselves, will form your municipality or city government. It will take care of you, of your needs, and of your welfare. Its members will be distinguished by a red ribbon worn across the shoulder, and the mayor of the city will wear a white belt as well. But when not on duty they will only wear a red ribbon round the left arm.

The city police is established on its former footing, and better order already prevails in consequence of its activity. The government has appointed two commissaries general, or chiefs of police, and twenty commissaries or captains of wards have been appointed to the different wards of the city. You will recognize them by the white ribbon they will wear on the left arm. Several churches of different
denominations are open, and divine service is
performed in them unhindered. Your fellow citizens are returning every day to their homes. and orders have been given that they should find in them the help and protection due to their misfortunes. These are the measures the government has adopted to re-establish order and relieve your condition. But to achieve this aim it is necessary that you should add your efforts and should, if possible, forget the misfortunes you have suffered, should entertain the hope of a less cruel fate, should be certain that inevitable and ignominious death awaits those who make any attempt on your persons or on what remains of your property, and finally that you should not doubt that these will be safeguarded, since such is the will of the greatest and most just of monarchs. Soldiers and citizens, of whatever nation you may be, re-establish public confidence, the source of the welfare of a state, live like brothers, render mutual aid and protection one
to
another, unite to defeat the intentions of the evil-minded, obey the military and civil authorities, and your tears will soon cease to flow!

With regard to supplies for the army, Napoleon decreed that all the troops in turn should enter Moscow a la maraude* to obtain

provisions for themselves, so that the army might have its future provided for.

*As looters.

With regard to religion, Napoleon ordered the priests to be brought back and services to be again performed in the churches.

With regard to commerce and to provisioning the army, the following was placarded everywhere:

PROCLAMATION!

You, peaceful inhabitants of Moscow, artisans and workmen whom misfortune has driven from the city, and you scattered tillers of the soil, still kept out in the fields by groundless fear, listen! Tranquillity is returning to this capital and order is being restored in it. Your fellow countrymen are emerging boldly from their hiding places on finding that they are respected. Any violence to them or to their property is promptly punished. His Majesty the Emperor and King protects them, and considers no one among you his enemy except those who disobey his orders. He desires to end your misfortunes and restore you to your homes and families. Respond, therefore, to his benevolent intentions and come to us without fear. Inhabitants, return with confidence to your abodes! You will soon find means of satisfying your needs. Craftsmen and industrious artisans, return to your work, your houses, your shops, where the protection of guards awaits you! You shall receive proper pay for your work. And lastly you too, peasants, come from the forests where you are hiding in terror, return to your huts without fear, in full assurance that you will find protection! Markets are established in the city where peasants can bring their surplus supplies and the products of the soil. The government has taken the following steps to ensure freedom of sale for them: (1) From today, peasants, husbandmen, and those living in the neighborhood of Moscow may without any danger bring their supplies of all kinds to two appointed markets, of which one is on the Mokhovaya Street and the other at the Provision Market. (2) Such supplies will be bought from them at such prices as seller and buyer may agree on, and if a seller is unable to obtain a fair price he will be free to take his goods back to his village and no one may hinder him under any pretense. (3) Sunday and Wednesday of each week are appointed as the chief market days and to that end a sufficient number of troops will be stationed along the highroads on

Tuesdays and Saturdays at such distances from the town as to protect the carts. (4) Similar measures will be taken that peasants with their carts and horses may meet with no hindrance on their return journey. (5) Steps will immediately be taken to re-establish ordinary trading.

Inhabitants of the city and villages, and you, workingmen and artisans, to whatever nation you belong,
you are called on to carry
out the paternal intentions of His Majesty the Emperor and King and to co-operate with him for the public welfare! Lay your respect and confidence at his feet and do not delay to unite with us!

With the object of raising the spirits of the troops and of the people, reviews were constantly held and rewards distributed. The Emperor rode through the streets to comfort the inhabitants, and, despite his preoccupation with state affairs, himself visited the theaters that were established by his order.

In regard to philanthropy, the greatest virtue of crowned heads, Napoleon also did all in his power. He caused the words Maison de ma Mere to be inscribed on the charitable institutions, thereby combining tender filial affection with the majestic benevolence of a monarch. He visited the Foundling Hospital and, allowing the orphans saved by him to kiss his white hands, graciously conversed with Tutolmin. Then, as Thiers eloquently recounts, he ordered his soldiers to
be paid in
forged Russian money which he had prepared: "Raising the use of these means by an act worthy of himself and of the French army, he let relief be distributed to those who had been burned out. But as food was too precious to be given to foreigners, who were for the most part enemies, Napoleon preferred to supply them with money with which to purchase food from outside, and had paper rubles distributed to them."

With reference to army discipline, orders were continually being issued to inflict severe punishment for the nonperformance of military duties and to suppress robbery.

CHAPTER X

But strange to say, all these measures, efforts, and plans--which were not at all worse than others issued in similar circumstances--did not affect the essence of the matter but, like the hands of a clock

detached from the mechanism, swung about in an arbitrary and aimless way without engaging the cogwheels.

With reference to the military side--the plan of campaign--that work of genius
of which Thiers remarks that, "His genius never devised anything more profound, more skillful, or more admirable," and enters into a polemic with M. Fain to prove that this work of genius must be referred not to the fourth but to the fifteenth of October- that plan never was or could be executed, for it was quite out of touch with the facts of the case. The fortifying of the Kremlin, for which la Mosquee (as Napoleon termed the church of Basil the Beatified) was to have been razed to the ground, proved quite useless. The mining of the Kremlin only helped toward fulfilling Napoleon's wish that it should be blown up when he left Moscow--as a child wants the floor on which he has hurt himself to be beaten. The pursuit of the Russian army, about which Napoleon was so concerned, produced an unheard-of result. The French generals lost touch with the Russian army of sixty thousand men, and according to Thiers it was only eventually found, like a lost pin, by the skill--and apparently the genius--of
Murat.

With reference to diplomacy, all Napoleon's arguments as to his magnanimity and justice, both to Tutolmin and to Yakovlev (whose chief concern was to obtain a greatcoat and a conveyance), proved useless; Alexander did not receive these envoys and did not reply to their embassage.

With regard to legal matters, after the execution of the supposed incendiaries the rest of Moscow burned down.

With regard to administrative matters, the establishment of a municipality did not stop the robberies and was only of use to certain people who formed part of that municipality and under pretext of preserving order looted Moscow or saved their own property from being looted.

With regard to religion, as to which in Egypt matters had so easily been settled by Napoleon's visit to a mosque, no results were achieved. Two or three priests who were found in Moscow did try to carry out Napoleon's wish, but one of them was slapped in the face by a French soldier while conducting service, and
a French official
reported of another that: "The priest whom I found and invited to say Mass cleaned and locked up the church. That night the doors were again broken open, the padlocks smashed, the books mutilated, and other disorders perpetrated."

With reference to commerce, the proclamation to industrious workmen and to peasants evoked no response. There were no industrious workmen, and the peasants caught the commissaries who ventured too far out of town with the proclamation and killed them.

As to the theaters for the entertainment of the people and the troops, these did not meet with success either. The theaters set up in the Kremlin and in Posnyakov's house were closed again at once because the actors and actresses were robbed.

Even philanthropy did not have the desired effect. The genuine as well as the false paper money which flooded Moscow lost its value. The French, collecting booty, cared only for gold. Not only was the paper money valueless which Napoleon so graciously distributed to the unfortunate, but even silver lost its value in relation to gold.

But the most amazing example of the ineffectiveness of the orders given by the authorities at that time was Napoleon's attempt to stop the looting and re-establish discipline.

This is what the army authorities were reporting:

"Looting continues in the city despite the decrees against it. Order is not yet restored and not a single merchant is carrying on trade in a lawful manner. The sutlers alone venture to trade, and they sell stolen goods."

"The neighborhood of my ward continues to be pillaged by soldiers of the 3rd Corps who, not satisfied with taking from the unfortunate inhabitants hiding in the cellars the little they have left, even have the ferocity to wound them with their sabers, as I have repeatedly witnessed."

"Nothing new, except that the soldiers are robbing and pillaging-October 9."

"Robbery and pillaging continue. There is a band of thieves in our district who ought to be arrested by a strong force--October 11."

"The Emperor is extremely displeased that despite the strict orders to stop pillage, parties of marauding Guards are continually seen returning to the Kremlin. Among the Old Guard disorder and pillage were renewed more violently than ever yesterday evening, last night, and today. The Emperor sees with regret that the picked soldiers appointed to guard his person, who should set an example of

discipline, carry disobedience to such a point that they break into the cellars and stores containing army supplies. Others have disgraced themselves to the extent of disobeying sentinels and officers, and have abused and beaten them."

"The Grand Marshal of the palace," wrote the governor, "complains bitterly that in spite of repeated orders, the soldiers continue to commit nuisances in all the courtyards and even under the very windows of the Emperor."

That army, like a herd of cattle run wild and trampling underfoot the provender which might have saved it from
starvation, disintegrated
and perished with each additional day it remained in Moscow. But it did not go away.

It began to run away only when suddenly seized by a panic caused by the capture of transport trains on the Smolensk road, and by the battle of Tarutino. The news of that battle of Tarutino, unexpectedly received by Napoleon at a review, evoked in him a desire to punish the Russians (Thiers says), and he issued the order for departure which the whole army was demanding.

Fleeing from Moscow the soldiers took with them everything they had stolen. Napoleon, too, carried away his own personal tresor, but on seeing the baggage trains that impeded the army, he was (Thiers says) horror-struck. And yet with his experience of war he did not order all the superfluous vehicles to be burned, as he had done with those of a certain marshal when approaching Moscow. He gazed at the caleches and carriages in which soldiers were riding and remarked that it was a very good thing, as those vehicles
could be used to carry
provisions, the sick, and the wounded.

The plight of the whole army resembled that of a wounded animal which feels it is perishing and does not know what it is doing. To study the skillful tactics and aims of Napoleon and his army from the time it entered Moscow till it was destroyed is like studying the dying leaps and shudders of a mortally wounded animal. Very often a wounded animal, hearing a rustle, rushes straight at the hunter's gun, runs forward and back again, and hastens its own end. Napoleon, under pressure from his whole army, did the same thing. The rustle of the battle of Tarutino frightened the beast, and it rushed forward onto the hunter's gun, reached him, turned back, and finally--like any wild beast--ran back along the most disadvantageous and dangerous path, where the old scent was familiar.

During the whole of that period Napoleon, who seems to us to have

been the leader of all these movements--as the figurehead of a ship may seem to a savage to guide the vessel--acted like a child who, holding a couple of strings inside a carriage, thinks he is driving it.

CHAPTER XI

Early in the morning of the sixth of October Pierre went out of the shed, and on returning stopped by the door to play with a little blue-gray dog, with a long body and short bandy legs, that jumped about him. This little dog lived in their shed, sleeping beside Karataev at night; it sometimes made excursions into the town but always returned again. Probably it had never had an owner, and it still belonged to nobody and had no name. The French called it Azor; the soldier who told stories called it Femgalka; Karataev and others called it Gray, or sometimes Flabby. Its lack of a master, a name, or even of a breed or any definite color did not seem to trouble the blue-gray dog in the least. Its furry tail stood up firm and round as a plume, its bandy legs served it so well that it would often gracefully lift a hind leg and run very easily and quickly on three legs, as if disdaining to use all four. Everything pleased it. Now it would roll on its back, yelping with delight, now bask in the sun with a thoughtful air of importance, and now frolic about playing with a chip of wood or a straw.

Pierre's attire by now consisted of a dirty torn shirt (the only remnant of his former clothing), a pair of soldier's trousers which by Karataev's advice he tied with string round the ankles for warmth, and a peasant coat and cap. Physically he had changed much during this time. He no longer seemed stout, though he still had the appearance of solidity and strength hereditary in his family. A beard and mustache covered the lower part of his face, and a tangle of hair, infested with lice, curled round his head like a cap. The look of his eyes was resolute, calm, and animatedly alert, as never before. The former slackness which had shown itself even in his eyes was now replaced by an energetic readiness for action and resistance. His feet were bare.

Pierre first looked down the field across which vehicles and horsemen were passing that morning, then into the distance across

the river, then at the dog who was pretending to be in earnest about biting him, and then at his bare feet which he placed with pleasure in various positions, moving his dirty thick big toes. Every time he looked at his bare feet a smile of animated self-satisfaction flitted across his face. The sight of them reminded him of all he had experienced and learned during these weeks and this recollection was pleasant to him.

For some days the weather had been calm and clear with slight frosts in the mornings--what is called an "old wives' summer."

In the sunshine the air was warm, and that warmth was particularly pleasant with the invigorating freshness of the morning frost still in the air.

On everything--far and near--lay the magic crystal glitter seen only at that time autumn. The Sparrow Hills were visible in the distance, with the village, the church, and
the large white house. The bare
trees, the sand, the bricks and roofs of the houses, the green church spire, and the corners of the white house in the distance, all stood out in the transparent air in most delicate outline and with unnatural clearness. Near by could be seen the familiar ruins of a half-burned mansion occupied by the French, with lilac bushes still showing dark green beside the fence. And even that ruined and befouled house--which in dull weather was repulsively ugly--seemed quietly beautiful now, in the clear, motionless brilliance.

A French corporal, with coat unbuttoned in a homely way, a skullcap on his head, and a short pipe in his mouth, came from behind a corner of the shed and approached Pierre with a friendly wink.

"What sunshine, Monsieur Kiril!" (Their name for Pierre.) "Eh? Just like spring!"

And the corporal leaned against the door and offered Pierre his pipe, though whenever he offered it Pierre always declined it.

"To be on the march in such weather..."
he began.

Pierre inquired what was being said about leaving, and the corporal told him that nearly all the troops were starting and there ought to be an order about the prisoners that day. Sokolov, one of the soldiers in the shed with Pierre, was dying, and Pierre told the corporal that something should be done about him. The corporal replied that Pierre need not worry about that as they had an ambulance and a

permanent hospital and arrangements would be made for the sick, and that in general everything that could happen had been foreseen by the authorities.

"Besides, Monsieur Kiril, you have only to say a word to the captain, you know. He is a man who never forgets anything. Speak to the captain when he makes his round, he will do anything for you."

(The captain of whom the corporal spoke often had long chats with Pierre and showed him all sorts of favors.)

"'You see, St. Thomas,' he said to me the other day. 'Monsieur Kiril is a man of education, who speaks French. He is a Russian seigneur who has had misfortunes, but he is a man. He knows what's what.... If he wants anything and asks me, he won't get a refusal. When one has studied, you see, one likes education and well-bred people.' It is for your sake I mention it, Monsieur Kiril. The other day if it had not been for you that affair would have ended ill."

And after chatting a while longer, the corporal went away. (The affair he had alluded to had happened a few days before--a fight between the prisoners and the French soldiers, in which Pierre had succeeded in pacifying his comrades.) Some of the prisoners who had heard Pierre talking to the corporal immediately asked what the Frenchman had said. While Pierre was repeating what he had been told about the army leaving Moscow, a thin, sallow, tattered French soldier came up to the door of the shed. Rapidly and timidly raising his fingers to his forehead by way of greeting, he asked Pierre whether the soldier Platoche to whom he had given a shirt to sew was in that shed.

A week before the French had had boot leather and linen issued to them, which they had given out to the prisoners to make up into boots and shirts for them.

"Ready, ready, dear fellow!" said Karataev, coming out with a neatly folded shirt.

Karataev, on account of the warm weather and for convenience at work, was wearing only trousers and a tattered shirt as black as soot. His hair was bound round, workman fashion, with a wisp of lime-tree bast, and his round face seemed rounder and pleasanter than ever.

"A promise is own brother to performance! I said Friday and here it is, ready," said Platon, smiling and unfolding the shirt he had sewn.

The Frenchman glanced around uneasily and then, as if overcoming his hesitation, rapidly threw off his uniform and put on the shirt. He had a long, greasy, flowered silk waistcoat next to his sallow, thin bare body, but no shirt. He was evidently afraid the prisoners looking on would laugh at him, and thrust his head into the shirt hurriedly.
None of the prisoners said a word.

"See, it fits well!" Platon kept repeating, pulling the shirt straight.

The Frenchman, having pushed his head and hands through, without raising his eyes, looked down at the shirt and examined the seams.

"You see, dear man, this is not a sewing shop, and I had no proper tools; and, as they say, one needs a tool even to kill a louse," said Platon with one of his round smiles, obviously pleased with his work.

"It's good, quite good, thank you," said the Frenchman, in French, "but there must be some linen left over.

"It will fit better still when it sets to your body," said Karataev, still admiring his handiwork. "You'll be nice and comfortable...."

"Thanks, thanks, old fellow.... But the bits left over?" said the Frenchman again and smiled. He took out an assignation ruble note and gave it to Karataev. "But give me the pieces that are over."

Pierre saw that Platon did not want to understand what the Frenchman was saying, and he looked on without interfering. Karataev thanked the Frenchman for the money and went on admiring his own work. The Frenchman insisted on having the pieces returned that were left over and asked Pierre to translate what he said.

"What does he want the bits for?" said Karataev. "They'd make fine leg bands for us. Well, never mind."

And Karataev, with a suddenly changed and saddened expression, took a small bundle of scraps from inside his shirt and gave it to the Frenchman without looking at him. "Oh dear!" muttered Karataev and went away. The Frenchman looked at the linen, considered for a moment, then looked inquiringly at Pierre and, as if Pierre's look had told him something, suddenly blushed and shouted in a squeaky voice:

"Platoche! Eh, Platoche! Keep them yourself!" And handing back the

odd bits he turned and went out.

"There, look at that," said Karataev, swaying his head. "People said they were not Christians, but they too have souls. It's what the old folk used to say: 'A sweating
hand's an open hand, a dry hand's
close.' He's naked, but yet he's given it back."

Karataev smiled thoughtfully and was silent awhile looking at the pieces.

"But they'll make grand leg bands, dear friend," he said, and went back into the shed.

CHAPTER XII

Four weeks had passed since Pierre had been taken prisoner and though the French had offered to move him from the men's to the officers' shed, he had stayed in the shed where he was first put.

In burned and devastated Moscow Pierre experienced almost the extreme limits of privation a man can endure; but thanks to his physical strength and health, of which he had till then been unconscious, and thanks especially to the fact that the privations came so gradually that it was impossible to say when they began, he endured his position not only lightly but joyfully. And just at this time he obtained the tranquillity and ease of mind he had formerly striven in vain to reach. He had long sought in different ways that tranquillity
of mind, that inner harmony which had so impressed him in the soldiers at the battle of Borodino. He had sought it in philanthropy, in Freemasonry, in the dissipations of town life, in wine, in heroic feats of self-sacrifice, and in romantic love for Natasha; he had sought it by reasoning--and all these quests and experiments had failed him. And now without thinking about it he had found that peace and inner harmony only through the horror of death, through privation, and through what he recognized in Karataev.

Those dreadful moments he had lived through at the executions had as it were forever washed away from his imagination and memory the agitating thoughts and feelings that had formerly seemed so important. It did not now occur to him to think of Russia, or the war, or politics, or Napoleon. It was plain to him that all these things

were no business of his, and that he was not called on to judge concerning them and therefore could not do so. "Russia and summer weather are not bound together," he thought, repeating words of Karataev's which he found strangely consoling. His intention of killing Napoleon and his calculations of the cabalistic number of the beast of the Apocalypse now seemed to him meaningless and even ridiculous. His anger with his wife and anxiety that his name should not be smirched now seemed not merely trivial but even amusing. What concern was it of his that somewhere or other that woman was leading the life she preferred? What did it matter to anybody, and especially to him, whether or not they found out that their prisoner's name was Count Bezukhov?

He now often remembered his conversation with Prince Andrew and quite agreed with him, though he understood Prince Andrew's thoughts somewhat differently. Prince Andrew had thought and said that happiness could only be negative, but had said it with a shade of bitterness and irony as though he was really saying that all desire for positive happiness is implanted in us merely to torment us and never be satisfied. But Pierre believed it without any mental reservation. The absence of suffering, the satisfaction of one's needs and consequent freedom in the choice of one's occupation, that is, of one's way of life, now seemed to Pierre to be indubitably man's highest happiness. Here and now for the first time he fully appreciated the enjoyment of eating when he wanted to eat, drinking when he wanted to drink, sleeping when he wanted to sleep, of warmth when he was cold, of talking to a fellow man when he wished to talk and to hear a human voice. The satisfaction of one's needs--good food, cleanliness, and freedom--now that he was deprived of all this, seemed to Pierre to constitute perfect happiness; and the choice of occupation, that is, of his way of life--now that that was so restricted--seemed to him such an easy matter that he forgot that a superfluity of the comforts of life destroys all joy in satisfying one's needs, while great freedom in the choice of occupation--such freedom as his wealth, his education, and his social position had given him in his own life--is just what makes the choice of occupation insolubly difficult and destroys the desire and possibility of having an occupation.

All Pierre's daydreams now turned on the time when he would be free. Yet subsequently, and for the rest of his life, he thought and spoke with enthusiasm of that month of captivity, of those irrecoverable, strong, joyful sensations, and chiefly of the complete peace of mind and inner freedom which he experienced only during those weeks.

When on the first day he got up early, went out of the shed at dawn, and saw the cupolas and crosses of the New Convent of the Virgin still dark at first, the hoarfrost on the dusty grass, the Sparrow Hills, and the wooded banks above the winding river vanishing in the purple distance, when he felt the contact of the fresh air and heard the noise of the crows flying from Moscow across the field, and when afterwards light gleamed from
the east and the sun's rim appeared
solemnly from behind a cloud, and the cupolas and crosses, the hoarfrost, the distance and the river, all began to sparkle in the glad light--Pierre felt a new joy and strength in life such as he had never before known. And this not only stayed with him during the whole of his imprisonment, but even grew in strength as the hardships of his position increased.

That feeling of alertness and of readiness for anything was still further strengthened in him by the high opinion his fellow prisoners formed of him soon after his arrival at the shed. With his knowledge of languages, the respect shown him by the French, his simplicity, his readiness to give anything asked of him (he received the allowance of three rubles a week made to officers); with his strength, which he showed to the soldiers by pressing nails into the walls of the hut; his gentleness to his companions, and his capacity for sitting still and thinking without doing anything (which seemed
to them
incomprehensible), he appeared to them a rather mysterious and superior being. The very qualities that had been a hindrance, if not actually harmful, to him in the world he had lived in--his strength, his disdain for the comforts of life, his absent-mindedness and simplicity--here among these people gave him almost the status of a hero. And Pierre felt that their opinion placed responsibilities upon him.

CHAPTER XIII

The French evacuation began on the night between the sixth and seventh of October: kitchens and sheds were dismantled, carts loaded, and troops and baggage trains started.

At seven in the morning a French convoy in marching trim, wearing shakos and carrying muskets, knapsacks, and enormous sacks, stood in front of the sheds, and animated French talk mingled with curses sounded all along the lines.

In the shed everyone was ready, dressed, belted, shod, and only awaited the order to start. The sick soldier, Sokolov, pale and thin with dark shadows round his
eyes, alone sat in his place barefoot
and not dressed. His eyes, prominent from the emaciation of his face, gazed inquiringly at his comrades who were paying no attention to him, and he moaned regularly and quietly. It was evidently not so much his sufferings that caused him to moan (he had dysentery) as his fear and grief at being left alone.

Pierre, girt with a rope round his waist and wearing shoes Karataev had made for him from some leather a French soldier had torn off a tea chest and brought to have his boots mended with, went up to the sick man and squatted down beside him.

"You know, Sokolov, they are not all going away! They have a hospital here. You may be better off than we others," said Pierre.

"O Lord! Oh, it will be the death of me! O Lord!" moaned the man in a louder voice.

"I'll go and ask them again directly," said Pierre, rising and going to the door of the shed.

Just as Pierre reached the door, the corporal who had offered him a pipe the day before came up to it
with two soldiers. The corporal
and soldiers were in marching kit with knapsacks and shakos that had metal straps, and these changed their familiar faces.

The corporal came, according to orders, to shut the door. The prisoners had to be counted before being let out.

"Corporal, what will they do with the sick man?..." Pierre began.

But even as he spoke he began to doubt whether this was the corporal he knew or a stranger, so unlike himself did the corporal seem at that moment. Moreover, just as Pierre was speaking a sharp rattle of drums was suddenly heard from both sides. The corporal frowned at Pierre's words and, uttering some meaningless oaths, slammed the door. The shed became semidark, and the sharp rattle of the drums on two sides drowned the sick man's groans.

"There it is!... It again!..." said Pierre to himself, and an involuntary shudder ran down his spine. In the corporal's changed face, in the sound of his voice, in the stirring and deafening noise of the drums, he recognized

that mysterious, callous force which
compelled people against their will to kill their fellow men--that force the effect of which he had witnessed during the executions. To fear or to try to escape that force, to address entreaties or exhortations to those who served as its tools, was useless. Pierre knew this now. One had to wait and endure. He did not again go to the sick man, nor turn to look at him, but stood frowning by the door of the hut.

When that door was opened and the prisoners, crowding against one another like a flock of sheep, squeezed into the exit, Pierre pushed his way forward and approached that very captain who as the corporal had assured him was ready to do anything for him. The captain was also in marching kit, and on his cold face appeared that same it which Pierre had recognized in the corporal's words and in the roll of the drums.

"Pass on, pass on!" the captain reiterated, frowning sternly, and looking at the prisoners who thronged past him.

Pierre
went up to him, though he knew his attempt would be vain.

"What now?" the officer asked with a cold look as if not recognizing Pierre.

Pierre told him about the sick man.

"He'll manage to walk, devil take him!" said the captain. "Pass on, pass on!" he continued without looking at Pierre.

"But he is dying," Pierre again began.

"Be so good..." shouted the captain, frowning angrily.

"Dram-da-da-dam, dam-dam..." rattled the drums, and Pierre understood that this mysterious force completely controlled these men and that it was now useless to say any more.

The officer prisoners were separated from the soldiers and told to march in front. There were about thirty officers, with Pierre among them, and about three hundred men.

The officers, who had come from the other sheds, were all strangers to Pierre and much better dressed than he. They looked at him and at his shoes mistrustfully, as at an alien. Not far from him walked a fat major with a sallow, bloated, angry face, who was wearing a

Kazan dressing grown tied round with a towel, and who evidently enjoyed the respect of his fellow prisoners. He kept one hand, in which he clasped his tobacco pouch, inside the bosom of his dressing gown and held the stem of his pipe firmly with the other. Panting and puffing, the major grumbled and growled at everybody because he thought he was being pushed and that they were all hurrying when they had nowhere to hurry to and were all surprised at something when there was nothing to be surprised at. Another, a thin little officer, was speaking to everyone, conjecturing where they were now being taken and how far they would get that day. An official in felt boots and wearing a commissariat uniform ran round from side to side and gazed at the ruins of Moscow, loudly announcing his observations as to what had been burned down and what this or that part of the city was that they could see. A third officer, who by his accent was a Pole, disputed with the commissariat officer, arguing that he was mistaken in his identification of the different wards of Moscow.

"What are you disputing about?" said the major angrily. "What does it matter whether it is St. Nicholas or St. Blasius? You see it's burned down, and there's an end of it.... What are you pushing for? Isn't the road wide enough?" said he, turning to a man behind him who was not pushing him at all.

"Oh, oh, oh! What have they done?" the prisoners on one side and another were heard saying as they gazed on the charred ruins. "All beyond the river, and Zubova, and in the Kremlin.... Just look! There's not half of it left. Yes, I told you--the whole quarter beyond the river, and so it is."

"Well, you know it's burned, so what's the use of talking?" said the major.

As they passed near a church in the Khamovniki (one of the few unburned quarters of Moscow) the whole mass of prisoners suddenly started to one side and exclamations of horror and disgust were heard.

"Ah, the villains! What heathens! Yes; dead, dead, so he is... And smeared with something!"

Pierre too drew near the church where the thing was that evoked these exclamations, and dimly made out something leaning against the palings surrounding the church. From the words of his comrades who saw better than he did, he found that this was the body of a man, set upright against the palings with its face smeared with soot.

"Go on! What the devil... Go on! Thirty thousand devils!..." the

convoy guards began cursing and the French soldiers, with fresh virulence, drove away with their swords the crowd of prisoners who were gazing at the dead man.

CHAPTER XIV

Through the cross streets of the Khamovniki quarter the prisoners marched, followed only by their escort and the vehicles and wagons belonging to that escort, but when they reached the supply stores they came among a huge and closely packed train of artillery mingled with private vehicles.

At the bridge they all halted, waiting for those in front to get across. From the bridge they had a view of endless lines of moving baggage trains before and behind them. To the right, where the Kaluga road turns near Neskuchny, endless rows of troops and carts stretched away into the distance. These were troops of Beauharnais' corps which had started before any of the others. Behind, along the riverside and across the Stone Bridge, were Ney's troops and transport.

Davout's troops, in whose charge were the prisoners, were crossing the Crimean bridge and some were already debouching into the Kaluga road. But the baggage trains stretched out so that the last of Beauharnais' train had not yet got out of Moscow and reached the Kaluga road when the vanguard of Ney's army was already emerging from the Great Ordynka Street.

When they had crossed the Crimean bridge the prisoners moved a few steps forward, halted, and again moved on, and from all sides vehicles and men crowded closer and closer together. They advanced the few hundred paces that separated the bridge from the Kaluga road, taking more than an hour to do so, and came out upon the square where the streets of the Transmoskva ward and the Kaluga road converge, and the prisoners jammed close together had to stand for some hours at that crossway. From all sides, like the roar of the sea, were heard the rattle of wheels, the tramp of feet, and incessant shouts of anger and abuse. Pierre stood pressed against the wall of a charred house, listening to that noise which mingled in his imagination with the roll of the drums.

To get a better view, several officer prisoners climbed onto the wall of the half-burned house against which Pierre was leaning.

"What crowds! Just look at the crowds!... They've loaded goods even on the cannon! Look there, those are furs!" they exclaimed. "Just see what the blackguards have looted.... There! See what that one has behind in the cart.... Why, those are settings taken from some icons, by heaven!... Oh, the rascals!... See how that fellow has loaded himself up, he can hardly walk! Good lord, they've even grabbed those chaises!... See that fellow there sitting on the trunks.... Heavens! They're fighting."

"That's right, hit him on the snout--on his snout! Like this, we shan't get away before evening. Look, look there.... Why, that must be Napoleon's own. See what horses! And the monograms with a crown! It's like a portable house.... That fellow's dropped his sack and doesn't see it. Fighting again... A woman with a baby, and not bad-looking either! Yes, I dare say, that's the way they'll let you pass... Just look, there's no end to it. Russian wenches, by heaven, so they are! In carriages--see how comfortably they've settled themselves!"

Again, as at the church in Khamovniki, a wave of general curiosity bore all the prisoners forward onto the road, and Pierre, thanks to his stature, saw over the heads of the others what so attracted their curiosity. In three carriages involved among the munition carts, closely squeezed together, sat women with rouged faces, dressed in glaring colors, who were shouting something in shrill voices.

From the moment Pierre had recognized the appearance of the mysterious force nothing had seemed to him strange or dreadful: neither the corpse smeared with soot for fun nor these women hurrying away nor the burned ruins of Moscow. All that he now witnessed scarcely made an impression on him--as if his soul, making ready for a hard struggle, refused to receive impressions that might weaken it.

The women's vehicles drove by. Behind them came more carts, soldiers, wagons, soldiers, gun carriages, carriages, soldiers, ammunition carts, more soldiers, and now and then women.

Pierre did not see the people as individuals but saw their movement.

All these people and horses seemed driven forward by some invisible power. During the hour Pierre watched them they all came flowing from the different streets with one and the same desire to get

on quickly; they all jostled one another, began to grow angry and to fight,
white teeth gleamed, brows frowned, ever the same words of abuse flew from side to side, and all the faces bore the same swaggeringly resolute and coldly cruel expression that had struck Pierre that morning on the corporal's face when the drums were beating.

It was not till nearly evening that the officer commanding the escort collected his men and with shouts and quarrels forced his way in among the baggage trains, and the prisoners, hemmed in on all sides, emerged onto the Kaluga road.

They marched very quickly, without resting, and halted only when the sun began to set. The baggage carts drew up close together and the men began to prepare for their night's rest. They all appeared angry and dissatisfied. For a long time, oaths, angry shouts, and fighting could be heard from all sides. A carriage that followed the escort ran into one of the carts and knocked a hole in it with its pole. Several soldiers ran toward the cart from different sides: some beat the carriage horses on their
heads, turning them aside, others
fought among themselves, and Pierre saw that one German was badly wounded on the head by a sword.

It seemed that all these men, now that they had stopped amid fields in the chill dusk of the autumn evening, experienced one and the same feeling of unpleasant awakening from the hurry and eagerness to push on that had seized them at the start. Once at a standstill they all seemed to understand that they did not yet know where they were going, and that much that was painful and difficult awaited them on this journey.

During this halt the escort treated the prisoners even worse than they had done at the start. It was here that the prisoners for the first time received horseflesh for their meat ration.

From the officer down to the lowest soldier they showed what seemed like personal spite against each of the prisoners, in unexpected contrast to their former friendly relations.

This spite increased still more when, on calling over the roll of prisoners, it
was found that in the bustle of leaving Moscow one
Russian soldier, who had pretended to suffer from colic, had escaped. Pierre saw a Frenchman beat a Russian soldier cruelly for straying too far from the road, and heard his friend the captain reprimand and threaten to court-martial a noncommissioned officer on

account of the escape of the Russian. To the noncommissioned officer's excuse that the prisoner was ill and could not walk, the officer replied that the order was to shoot those who lagged behind. Pierre felt that that fatal force which had crushed him during the executions, but which he had not felt during his imprisonment, now again controlled his existence. It was terrible, but he felt that in proportion to the efforts of that fatal force to crush him, there grew and strengthened in his soul a power of life independent of it.

He ate his supper of buckwheat soup with horseflesh and chatted with his comrades.

Neither Pierre nor any of the others spoke of what they had seen in
Moscow, or of the roughness of their treatment by the French, or of the order to shoot them which had been announced to them. As if in reaction against the worsening of their position they were all particularly animated and gay. They spoke of personal reminiscences, of amusing scenes they had witnessed during the campaign, and avoided all talk of their present situation.

The sun had set long since. Bright stars shone out here and there in the sky. A red glow as of a conflagration spread above the horizon from the rising full moon, and that vast red ball swayed strangely in the gray haze. It grew light. The evening was ending, but the night had not yet come. Pierre got up and left his new companions, crossing between the campfires to the other side of the road where he had been told the common soldier prisoners were stationed. He wanted to talk to them. On the road he was stopped by a French sentinel who ordered him back.

Pierre turned back, not to his companions by the campfire, but to an
unharnessed cart where there was nobody. Tucking his legs under him and dropping his head he sat down on the cold ground by the wheel of the cart and remained motionless a long while sunk in thought. Suddenly he burst out into a fit of his broad, good-natured laughter, so loud that men from various sides turned with surprise to see what this strange and evidently solitary laughter could mean.

"Ha-ha-ha!" laughed Pierre. And he said aloud to himself: "The soldier did not let me pass. They took me and shut me up. They hold me captive. What, me? Me? My immortal soul? Ha-ha-ha! Ha-ha-ha!..." and he laughed till tears started to his eyes.

A man got up and came to see what this queer big fellow was laughing at all by himself. Pierre stopped laughing, got up, went farther away from the inquisitive man, and looked around him.

The huge, endless bivouac that had previously resounded with the crackling of campfires and the voices of many men had grown quiet, the red campfires were growing
paler and dying down. High up in the
light sky hung the full moon. Forests and fields beyond the camp, unseen before, were now visible in the distance. And farther still, beyond those forests and fields, the bright, oscillating, limitless distance lured one to itself. Pierre glanced up at the sky and the twinkling stars in its faraway depths. "And all that is me, all that is within me, and it is all I!" thought Pierre. "And they caught all that and put it into a shed boarded up with planks!" He smiled, and went and lay down to sleep beside his companions.

CHAPTER XV

In the early days of October another envoy came to Kutuzov with a letter from Napoleon proposing peace and falsely dated from Moscow, though Napoleon was already not far from Kutuzov on the old Kaluga road. Kutuzov replied to this letter as he had done to the one formerly brought by Lauriston, saying that there could be no question of peace.

Soon after that a report was received from Dorokhov's guerrilla detachment
operating to the left of Tarutino that troops of
Broussier's division had been seen at Forminsk and that being separated from the rest of the French army they might easily be destroyed. The soldiers and officers again demanded action. Generals on the staff, excited by the memory of the easy victory at Tarutino, urged Kutuzov to carry out Dorokhov's suggestion. Kutuzov did not consider any offensive necessary. The result was a compromise which was inevitable: a small detachment was sent to Forminsk to attack Broussier.

By a strange coincidence, this task, which turned out to be a most difficult and important one, was entrusted to Dokhturov--that same modest little Dokhturov whom no one had described to us as drawing up plans of battles, dashing about in front of regiments, showering crosses on batteries, and so on, and who was thought to be and was spoken of as undecided and undiscerning--but whom we find commanding wherever the position was most difficult all through the
Russo-French

wars from Austerlitz to the year 1813. At Austerlitz he remained last at the Augezd dam, rallying the regiments, saving what was possible when all were flying and perishing and not a single general was left in the rear guard. Ill with fever he went to Smolensk with twenty thousand men to defend the town against Napoleon's whole army. In Smolensk, at the Malakhov Gate, he had hardly dozed off in a paroxysm of fever before he was awakened by the bombardment of the town--and Smolensk held out all day long. At the battle of Borodino, when Bagration was killed and nine tenths of the men of our left flank had fallen and the full force of the French artillery fire was directed against it, the man sent there was this same irresolute and undiscerning Dokhturov--Kutuzov hastening to rectify a mistake he had made by sending someone else there first. And the quiet little Dokhturov rode thither, and Borodino became the greatest glory of the Russian army. Many heroes have been described to us in verse and prose, but of Dokhturov scarcely a word has been said.

It was Dokhturov again whom they sent to Forminsk and from there to Malo-Yaroslavets, the place where the last battle with the French was fought and where the obvious disintegration of the French army began; and we are told of many geniuses and heroes of that period of the campaign, but of Dokhturov nothing or very little is said and that dubiously. And this silence about Dokhturov is the clearest testimony to his merit.

It is natural for a man who does not understand the workings of a machine to imagine that a shaving that has fallen into it by chance and is interfering with its action and tossing about in it is its most important part. The man who does not understand the construction of the machine cannot conceive that the small connecting cogwheel which revolves quietly is one of the most essential parts of the machine, and not the shaving which merely harms and hinders the working.

On the tenth of October when Dokhturov had gone halfway to Forminsk and stopped at the village of Aristovo, preparing faithfully to execute the orders he had received, the whole French army having, in its convulsive movement, reached Murat's position apparently in order to give battle--suddenly without any reason turned off to the left onto the new Kaluga road and began to enter Forminsk, where only Broussier had been till then. At that time Dokhturov had under his command, besides Dorokhov's detachment, the two small guerrilla detachments of Figner and Seslavin.

On the evening of October 11 Seslavin came to the Aristovo headquarters with a French guardsman he had captured. The prisoner said that the troops that had entered Forminsk that day were the

vanguard of the whole army, that Napoleon was there and the whole army had left Moscow four days previously. That same evening a house serf who had come from Borovsk said he had seen an immense army entering the town. Some Cossacks of Dokhturov's detachment reported having sighted
the French Guards marching along the road to Borovsk. From all these reports it was evident that where they had expected to meet a single division there was now the whole French army marching from Moscow in an unexpected direction--along the Kaluga road. Dokhturov was unwilling to undertake any action, as it was not clear to him now what he ought to do. He had been ordered to attack Forminsk. But only Broussier had been there at that time and now the whole French army was there. Ermolov wished to act on his own judgment, but Dokhturov insisted that he must have Kutuzov's instructions. So it was decided to send a dispatch to the staff.

For this purpose a capable officer, Bolkhovitinov, was chosen, who was to explain the whole affair by word of mouth, besides delivering a written report. Toward midnight Bolkhovitinov, having received the dispatch and verbal instructions, galloped off to the General Staff accompanied by a Cossack with spare horses.

CHAPTER XVI

It was
a warm, dark, autumn night. It had been raining for four days. Having changed horses twice and galloped twenty miles in an hour and a half over a sticky, muddy road, Bolkhovitinov reached Litashevka after one o'clock at night. Dismounting at a cottage on whose wattle fence hung a signboard, GENERAL STAFF, and throwing down his reins, he entered a dark passage.

"The general on duty, quick! It's very important!" said he to someone who had risen and was sniffing in the dark passage.

"He has been very unwell since the evening and this is the third night he has not slept," said the orderly pleadingly in a whisper. "You should wake the captain first."

"But this is very important, from General Dokhturov," said Bolkhovitinov, entering the open door which he had found by feeling in the dark.

The orderly had gone in before him and began waking somebody.

"Your honor, your honor! A courier."

"What? What's that? From whom?" came a sleepy voice.

"From Dokhturov and from Alexey Petrovich. Napoleon
is at Forminsk,"
said Bolkhovitinov, unable to see in the dark who was speaking but guessing by the voice that it was not Konovnitsyn.

The man who had wakened yawned and stretched himself.

"I don't like waking him," he said, fumbling for something. "He is very ill. Perhaps this is only a rumor."

"Here is the dispatch," said Bolkhovitinov. "My orders are to give it at once to the general on duty."

"Wait a moment, I'll light a candle. You damned rascal, where do you always hide it?" said the voice of the man who was stretching himself, to the orderly. (This was Shcherbinin, Konovnitsyn's adjutant.)
"I've found it, I've found it!" he added.

The orderly was striking a light and Shcherbinin was fumbling for something on the candlestick.

"Oh, the nasty beasts!" said he with disgust.

By the light of the sparks Bolkhovitinov saw Shcherbinin's youthful face as he held the candle, and the face of another man who was still asleep. This was Konovnitsyn.

When the flame of the sulphur splinters
kindled by the tinder burned
up, first blue and then red, Shcherbinin lit the tallow candle, from the candlestick of which the cockroaches that had been gnawing it were running away, and looked at the messenger. Bolkhovitinov was bespattered all over with mud and had smeared his face by wiping it with his sleeve.

"Who gave the report?" inquired Shcherbinin, taking the envelope.

"The news is reliable," said Bolkhovitinov. "Prisoners, Cossacks, and the scouts all say the same thing."

"There's nothing to be done, we'll have to wake him," said Shcherbinin, rising and going up to the man in the nightcap who lay

covered by a greatcoat. "Peter Petrovich!" said he. (Konovnitsyn did not stir.) "To the General Staff!" he said with a smile, knowing that those words would be sure to arouse him.

And in fact the head in the nightcap was lifted at once. On Konovnitsyn's handsome, resolute face with cheeks flushed by fever, there still remained for an instant a faraway dreamy expression remote from
present affairs, but then he suddenly started and his face assumed its habitual calm and firm appearance.

"Well, what is it? From whom?" he asked immediately but without hurry, blinking at the light.

While listening to the officer's report Konovnitsyn broke the seal and read the dispatch. Hardly had he done so before he lowered his legs in their woolen stockings to the earthen floor and began putting on his boots. Then he took off his nightcap, combed his hair over his temples, and donned his cap.

"Did you get here quickly? Let us go to his Highness."

Konovnitsyn had understood at once that the news brought was of great importance and that no time must be lost. He did not consider or ask himself whether the news was good or bad. That did not interest him. He regarded the whole business of the war not with his intelligence or his reason but by something else. There was within him a deep unexpressed conviction that all would be well, but that one must not trust to this and
still less speak about it, but must only attend to one's own work. And he did his work, giving his whole strength to the task.

Peter Petrovich Konovnitsyn, like Dokhturov, seems to have been included merely for propriety's sake in the list of the so-called heroes of 1812--the Barclays, Raevskis, Ermolovs, Platovs, and Miloradoviches. Like Dokhturov he had the reputation of being a man of very limited capacity and information, and like Dokhturov he never made plans of battle but was always found where the situation was most difficult. Since his appointment as general on duty he had always slept with his door open, giving orders that every messenger should be allowed to wake him up. In battle he was always under fire, so that Kutuzov reproved him for it and feared to send him to the front, and like Dokhturov he was one of those unnoticed cogwheels that, without clatter or noise, constitute the most essential part of the machine.

Coming out of the hut into the damp, dark night Konovnitsyn

frowned-
partly from an increased pain in his head and partly at the unpleasant thought that occurred to him, of how all that nest of influential men on the staff would be stirred up by this news, especially Bennigsen, who ever since Tarutino had been at daggers drawn with Kutuzov; and how they would make suggestions, quarrel, issue orders, and rescind them. And this premonition was disagreeable to him though he knew it could not be helped.

And in fact Toll, to whom he went to communicate the news, immediately began to expound his plans to a general sharing his quarters, until Konovnitsyn, who listened in weary silence, reminded him that they must go to see his Highness.

CHAPTER XVII

Kutuzov like all old people did not sleep much at night. He often fell asleep unexpectedly in the daytime, but at night, lying on his bed without undressing, he generally remained awake thinking.

So he lay now on his bed, supporting his large, heavy, scarred head on his plump hand, with his one
eye open, meditating and
peering into the darkness.

Since Bennigsen, who corresponded with the Emperor and had more influence than anyone else on the staff, had begun to avoid him, Kutuzov was more at ease as to the possibility of himself and his troops being obliged to take part in useless aggressive movements. The lesson of the Tarutino battle and of the day before it, which Kutuzov remembered with pain, must, he thought, have some effect on others too.

"They must understand that we can only lose by taking the offensive. Patience and time are my warriors, my champions," thought Kutuzov. He knew that an apple should not be plucked while it is green. It will fall of itself when ripe, but if picked unripe the apple is spoiled, the tree is harmed, and your teeth are set on edge. Like an experienced sportsman he knew that the beast was wounded, and wounded as only the whole strength of Russia could have wounded it, but whether it was mortally wounded or not was still an undecided question.

Now by the fact of Lauriston and Barthelemi having been sent, and by the reports of the guerrillas, Kutuzov was almost sure that the wound was mortal. But he needed further proofs and it was necessary to wait.

"They want to run to see how they have wounded it. Wait and we shall see! Continual maneuvers, continual advances!" thought he. "What for? Only to distinguish themselves! As if fighting were fun. They are like children from whom one can't get any sensible account of what has happened because they all want to show how well they can fight. But that's not what is needed now.

"And what ingenious maneuvers they all propose to me! It seems to them that when they have thought of two or three contingencies" (he remembered the general plan sent him from Petersburg) "they have foreseen everything. But the contingencies are endless."

The undecided question as to whether the wound inflicted at Borodino was mortal or not had hung over Kutuzov's head for a whole month. On the one hand the French had occupied Moscow. On the other Kutuzov felt assured with all his being that the terrible blow into which he and all the Russians had put their whole strength must have been mortal. But in any case proofs were needed; he had waited a whole month for them and grew more impatient the longer he waited. Lying on his bed during those sleepless nights he did just what he reproached those younger generals for doing. He imagined all sorts of possible contingencies, just like the younger men, but with this difference, that he saw thousands of contingencies instead of two or three and based nothing on them. The longer he thought the more contingencies presented themselves. He imagined all sorts of movements of the Napoleonic army as a whole or in sections--against Petersburg, or against him, or to outflank him. He thought too of the possibility (which he feared most of all) that Napoleon might fight him with his own weapon and remain in Moscow awaiting him. Kutuzov even imagined that Napoleon's army might turn back through Medyn and Yukhnov, but the one thing he could not foresee was what happened--the insane, convulsive stampede of Napoleon's army during its first eleven days after leaving Moscow: a stampede which made possible what Kutuzov had not yet even dared to think of--the complete extermination of the French. Dorokhov's report about Broussier's division, the guerrillas' reports of distress in Napoleon's army, rumors of preparations for leaving Moscow, all confirmed the supposition that the French army was beaten and preparing for flight. But these were only suppositions, which seemed important to the younger men but not to Kutuzov. With his sixty years' experience he knew what value to attach to rumors, knew how apt people who desire anything are to group

all news so that it appears to confirm what they desire, and he knew how readily in such cases they omit all that makes for the contrary. And the more he desired it the less he allowed himself to believe it.

This question absorbed all his mental powers. All else was to him only life's customary routine. To such customary routine belonged his conversations with the staff, the letters he wrote from Tarutino to Madame de Stael, the reading of novels, the distribution of awards, his correspondence with Petersburg, and so on. But the destruction of the French, which he alone foresaw, was his heart's one desire.

On the night of the eleventh of October he lay leaning on his arm and thinking of that.

There was a stir in the next room and he heard the steps of Toll, Konovnitsyn, and Bolkhovitinov.

"Eh, who's there? Come in, come in! What news?" the field marshal called out to them.

While a footman was lighting a candle, Toll communicated the substance of the news.

"Who brought it?" asked Kutuzov with a look which, when the candle was lit, struck Toll by its cold severity.

"There can be no doubt about it, your Highness."

"Call him in, call him here."

Kutuzov sat up with one leg hanging down from the bed and his big paunch resting against the other which was doubled under him. He screwed up his seeing eye to scrutinize the messenger more carefully, as if wishing to read in his face what preoccupied his own mind.

"Tell me, tell me, friend," said he to Bolkhovitinov in his low, aged voice, as he pulled together the shirt which gaped open on his chest, "come nearer--nearer. What news have you brought me? Eh? That Napoleon has left Moscow? Are you sure? Eh?"

Bolkhovitinov gave a detailed account from the beginning of all he had been told to report.

"Speak quicker, quicker! Don't torture me!" Kutuzov interrupted him.

Bolkhovitinov told him everything and was then silent, awaiting instructions. Toll was beginning to say something but Kutuzov checked him. He tried to say something, but his face suddenly puckered and wrinkled; he waved his arm at Toll and turned to the opposite side of the room, to the corner darkened by the icons that hung there.

"O Lord, my Creator,
Thou has heard our prayer..." said he in a
tremulous voice with folded hands. "Russia is saved. I thank Thee, O Lord!" and he wept.

CHAPTER XVIII

From the time he received this news to the end of the campaign all Kutuzov's activity was directed toward restraining his troops, by authority, by guile, and by entreaty, from useless attacks, maneuvers, or encounters with the perishing enemy. Dokhturov went to Malo-Yaroslavets, but Kutuzov lingered with the main army and gave orders for the evacuation of Kaluga--a retreat beyond which town seemed to him quite possible.

Everywhere Kutuzov retreated, but the enemy without waiting for his retreat fled in the opposite direction.

Napoleon's historians describe to us his skilled maneuvers at Tarutino and Malo-Yaroslavets, and make conjectures as to what would have happened had Napoleon been in time to penetrate into the rich southern provinces.

But not to speak of the fact that nothing prevented him from advancing into those southern provinces
(for the Russian army did
not bar his way), the historians forget that nothing could have saved his army, for then already it bore within itself the germs of inevitable ruin. How could that army--which had found abundant supplies in Moscow and had trampled them underfoot instead of keeping them, and on arriving at Smolensk had looted provisions instead of storing them--how could that army recuperate in Kaluga province, which was inhabited by Russians such as those who lived in Moscow, and where fire had the same property of consuming what was set ablaze?

That army could not recover anywhere. Since the battle of Borodino

and the pillage of Moscow it had borne within itself, as it were, the chemical elements of dissolution.

The members of what had once been an army--Napoleon himself and all his soldiers fled--without knowing whither, each concerned only to make his escape as quickly as possible from this position, of the hopelessness of which they were all more or less vaguely conscious.

So it came about that at the council at Malo-Yaroslavets, when the generals pretending to confer together expressed various opinions, all mouths were closed by the opinion uttered by the simple-minded soldier Mouton who, speaking last, said what they all felt: that the one thing needful was to get away as quickly as possible; and no one, not even Napoleon, could say anything against that truth which they all recognized.

But though they all realized that it was necessary to get away, there still remained a feeling of shame at admitting that they must flee. An external shock was needed to overcome that shame, and this shock came in due time. It was what the French called "le hourra de l'Empereur."

The day after the council at Malo-Yaroslavets Napoleon rode out early in the morning amid the lines of his army with his suite of marshals and an escort, on the pretext of inspecting the army and the scene of the previous and of the impending battle. Some Cossacks on the prowl for booty fell in with the Emperor and very nearly captured him. If the Cossacks did not capture Napoleon then, what saved him was the very thing that was destroying the French army, the booty on which the Cossacks fell. Here as at Tarutino they went after plunder, leaving the men. Disregarding Napoleon they rushed after the plunder and Napoleon managed to escape.

When les enfants du Don might so easily have taken the Emperor himself in the midst of his army, it was clear that there was nothing for it but to fly as fast as possible along the nearest, familiar road. Napoleon with his forty-year-old stomach understood that hint, not feeling his former agility and boldness, and under the influence of the fright the Cossacks had given him he at once agreed with Mouton and issued orders--as the historians tell us--to retreat by the Smolensk road.

That Napoleon agreed with Mouton, and that the army retreated, does not prove that Napoleon caused it to retreat, but that the forces which influenced

the whole army and directed it along the Mozhaysk
(that is, the Smolensk) road acted simultaneously on him also.

CHAPTER XIX

A man in motion always devises an aim for that motion. To be able to go a thousand miles he must imagine that something good awaits him at the end of those thousand miles. One must have the prospect of a promised land to have the strength to move.

The promised land for the French during their advance had been Moscow, during their retreat it was their native land. But that native land was too far off, and for a man going a thousand miles it is absolutely necessary to set aside his final goal and to say to himself: "Today I shall get to a place twenty-five miles off where I shall rest and spend the night," and during the first day's journey that resting place eclipses his ultimate goal and attracts all his hopes and desires. And the impulses felt by a single person are always magnified in a crowd.

For the French retreating along the old Smolensk road, the
final
goal--their native land--was too remote, and their immediate goal was Smolensk, toward which all their desires and hopes, enormously intensified in the mass, urged them on. It was not that they knew that much food and fresh troops awaited them in Smolensk, nor that they were told so (on the contrary their superior officers, and Napoleon himself, knew that provisions were scarce there), but because this alone could give them strength to move on and endure their present privations. So both those who knew and those who did not know deceived themselves, and pushed on to Smolensk as to a promised land.

Coming out onto the highroad the French fled with surprising energy and unheard-of rapidity toward the goal they had fixed on. Besides the common impulse which bound the whole crowd of French into one mass and supplied them with a certain energy, there was another cause binding them together--their great numbers. As with the physical law of gravity, their enormous mass drew the individual human
atoms to itself. In their hundreds of thousands they moved
like a whole nation.

Each of them desired nothing more than to give himself up as a

prisoner to escape from all this horror and misery; but on the one hand the force of this common attraction to Smolensk, their goal, drew each of them in the same direction; on the other hand an army corps could not surrender to a company, and though the French availed themselves of every convenient opportunity to detach themselves and to surrender on the slightest decent pretext, such pretexts did not always occur. Their very numbers and their crowded and swift movement deprived them of that possibility and rendered it not only difficult but impossible for the Russians to stop this movement, to which the French were directing all their energies. Beyond a certain limit no mechanical disruption of the body could hasten the process of decomposition.

A lump of snow cannot be melted instantaneously. There is a certain limit of time in
less than which no amount of heat can melt
the snow. On the contrary the greater the heat the more solidified the remaining snow becomes.

Of the Russian commanders Kutuzov alone understood this. When the flight of the French army along the Smolensk road became well defined, what Konovnitsyn had foreseen on the night of the eleventh of October began to occur. The superior officers all wanted to distinguish themselves, to cut off, to seize, to capture, and to overthrow the French, and all clamored for action.

Kutuzov alone used all his power (and such power is very limited in the case of any commander in chief) to prevent an attack.

He could not tell them what we say now: "Why fight, why block the road, losing our own men and inhumanly slaughtering unfortunate wretches? What is the use of that, when a third of their army has melted away on the road from Moscow to Vyazma without any battle?" But drawing from his aged wisdom what they could understand, he told them of the golden bridge,
and they laughed at and slandered him,
flinging themselves on, rending and exulting over the dying beast.

Ermolov, Miloradovich, Platov, and others in proximity to the French near Vyazma could not resist their desire to cut off and break up two French corps, and by way of reporting their intention to Kutuzov they sent him a blank sheet of paper in an envelope.

And try as Kutuzov might to restrain the troops, our men attacked, trying to bar the road. Infantry regiments, we are told, advanced to the attack with music and with drums beating, and killed and lost thousands of men.

But they did not cut off or overthrow anybody and the French army, closing up more firmly at the danger, continued, while steadily melting away, to pursue its fatal path to Smolensk.

BOOK FOURTEEN: 1812

CHAPTER I

The Battle of Borodino, with the occupation of Moscow that followed it and the flight of the French without further conflicts, is one of the most instructive phenomena in history.

All historians agree that the external activity of states and nations in their conflicts with one another is expressed in wars, and that as a direct result of greater or less success in war the political strength of states and nations increases or decreases.

Strange as may be the historical account of how some king or emperor, having quarreled with another, collects an army, fights his enemy's army, gains a victory by killing three, five, or ten thousand men, and subjugates a kingdom and an entire nation of several millions, all the facts of history (as far as we know it) confirm the truth of the statement that the greater or lesser success of one army against another is the cause, or at least an essential indication, of an increase or decrease in the strength of the nation--even though it is unintelligible why the defeat of an army- a hundredth part of a nation--should oblige that whole nation to submit. An army gains a victory, and at once the rights of the conquering nation have increased to the detriment of the defeated. An army has suffered defeat, and at once a people loses its rights in proportion to the severity of the reverse, and if its army suffers a complete defeat the nation is quite subjugated.

So according to history it has been found from the most ancient times, and so it is to our own day. All Napoleon's wars serve to confirm this rule. In proportion to the defeat of the Austrian army

Austria loses its rights, and the rights and the strength of France increase. The victories of the French at Jena and Auerstadt destroy the independent existence of Prussia.

But then, in 1812, the French gain a victory near Moscow. Moscow is taken and after that, with no further battles, it is not Russia that ceases to exist, but the French army of six hundred thousand, and then Napoleonic France itself. To strain the facts to fit the rules of history: to say that the field of battle at Borodino remained in the hands of the Russians, or that after Moscow there were other battles that destroyed Napoleon's army, is impossible.

After the French victory at Borodino there was no general engagement nor any that were at all serious, yet the French army ceased to exist. What does this mean? If it were an example taken from the history of China, we might say that it was not an historic phenomenon (which is the historians' usual expedient when anything does not fit their standards); if the matter concerned some brief conflict in which only a small number of troops took part, we might treat it as an exception; but this event occurred before our fathers' eyes, and for them it was a question of the life or death of their fatherland, and it happened in the greatest of all known wars.

The period of the campaign of 1812 from the battle of Borodino to the expulsion of the French proved that the winning of a battle does not produce a conquest and is not even an invariable indication of conquest; it proved that the force which decides the fate of peoples lies not in the conquerors, nor even in armies and battles, but in something else.

The French historians, describing the condition of the French army before it left Moscow, affirm that all was in order in the Grand Army, except the cavalry, the artillery, and the transport--there was no forage for the horses or the cattle. That was a misfortune no one could remedy, for the peasants of the district burned their hay rather than let the French have it.

The victory gained did not bring the usual results because the peasants Karp and Vlas (who after the French had evacuated Moscow drove in their carts to pillage the town, and in general personally failed to manifest any heroic feelings), and the whole innumerable multitude of such peasants, did not bring their hay to Moscow for the high price offered them, but burned it instead.

Let us imagine two men who have come out to fight a duel with rapiers according to all the rules of the art of fencing. The

fencing has gone on for some time; suddenly one of
the combatants,
feeling himself wounded and understanding that the matter is no joke
but concerns his life, throws down his rapier, and seizing the first
cudgel that comes to hand begins to brandish it. Then let us imagine
that the combatant who so sensibly employed the best and simplest
means to attain his end was at the same time influenced by
traditions of chivalry and, desiring to conceal the facts of the case,
insisted that he had gained his victory with the rapier according to
all the rules of art. One can imagine what confusion and obscurity
would result from such an account of the duel.

The fencer who demanded a contest according to the rules of
fencing was the French army; his opponent who threw away the rapier
and snatched up the cudgel was the Russian people; those who try to
explain the matter according to the rules of fencing are the
historians who have described the event.

After the burning of Smolensk a war began which did not follow any
previous traditions of war. The
burning of towns and villages, the
retreats after battles, the blow dealt at Borodino and the renewed
retreat, the burning of Moscow, the capture of marauders, the
seizure of transports, and the guerrilla war were all departures
from the rules.

Napoleon felt this, and from the time he took up the correct fencing
attitude in Moscow and instead of his opponent's rapier saw a cudgel
raised above his head, he did not cease to complain to Kutuzov and
to the Emperor Alexander that the war was being carried on contrary to
all the rules--as if there were any rules for killing people. In spite
of the complaints of the French as to the nonobservance of the
rules, in spite of the fact that to some highly placed Russians it
seemed rather disgraceful to fight with a cudgel and they wanted to
assume a pose en quarte or en tierce according to all the rules, and
to make an adroit thrust en prime, and so on--the cudgel of the
people's war was lifted with all its menacing and majestic strength,
and without
consulting anyone's tastes or rules and regardless of
anything else, it rose and fell with stupid simplicity, but
consistently, and belabored the French till the whole invasion had
perished.

And it is well for a people who do not--as the French did in 1813-
salute according to all the rules of art, and, presenting the hilt
of their rapier gracefully and politely, hand it to their
magnanimous conqueror, but at the moment of trial, without asking what
rules others have adopted in similar cases, simply and easily pick

up the first cudgel that comes to hand and strike with it till the feeling of resentment and revenge in their soul yields to a feeling of contempt and compassion.

CHAPTER II

One of the most obvious and advantageous departures from the so-called laws of war is the action of scattered groups against men pressed together in a mass. Such action always occurs in wars that take on a national character. In such actions, instead of two crowds opposing each other, the men disperse, attack singly, run away when attacked by stronger forces, but again attack when opportunity offers. This was done by the guerrillas in Spain, by the mountain tribes in the Caucasus, and by the Russians in 1812.

People have called this kind of war "guerrilla warfare" and assume that by so calling it they have explained its meaning. But such a war does not fit in under any rule and is directly opposed to a well-known rule of tactics which is accepted as infallible. That rule says that an attacker should concentrate his forces in order to be stronger than his opponent at the moment of conflict.

Guerrilla war (always successful, as history shows) directly infringes that rule.

This contradiction arises from the fact that military science assumes the strength of an army to be identical with its numbers. Military science says that the more troops the greater the strength. Les gros bataillons ont toujours raison.*

*Large battalions are always victorious.

For military science to say this is like defining momentum in mechanics by reference to the mass only: stating that momenta are equal or unequal to each other simply because the masses involved are equal or unequal.

Momentum (quantity of motion) is the product of mass and velocity.

In military affairs the strength of an army is the product of its mass and some unknown x.

Military science, seeing in history innumerable instances of the fact that the size of any army does not coincide with its strength and that small detachments defeat larger ones, obscurely admits the existence of this unknown factor and tries to discover it--now in a geometric formation, now in the equipment employed, now, and most usually, in the genius of the commanders. But the assignment of these various meanings to the factor does not yield results which accord with the historic facts.

Yet it is only necessary to abandon the false view (adopted to gratify the "heroes") of the efficacy of the directions issued in wartime by commanders,
in order to find this unknown quantity.

That unknown quantity is the spirit of the army, that is to say, the greater or lesser readiness to fight and face danger felt by all the men composing an army, quite independently of whether they are, or are not, fighting under the command of a genius, in two--or three-line formation, with cudgels or with rifles that repeat thirty times a minute. Men who want to fight will always put themselves in the most advantageous conditions for fighting.

The spirit of an army is the factor which multiplied by the mass gives the resulting force. To define and express the significance of this unknown factor--the spirit of an army--is a problem for science.

This problem is only solvable if we cease arbitrarily to substitute for the unknown x itself the conditions under which that force becomes apparent--such as the commands of the general, the equipment employed, and so on--mistaking these for the real significance of the factor, and if we recognize
this unknown
quantity in its entirety as being the greater or lesser desire to fight and to face danger. Only then, expressing known historic facts by equations and comparing the relative significance of this factor, can we hope to define the unknown.

Ten men, battalions, or divisions, fighting fifteen men, battalions, or divisions, conquer--that is, kill or take captive--all the others, while themselves losing four, so that on the one side four and on the other fifteen were lost. Consequently the four were equal to the fifteen, and therefore $4x = 15y$. Consequently $x/y = 15/4$. This equation does not give us the value of the unknown factor but gives us a ratio between two unknowns. And by bringing variously selected historic units (battles, campaigns, periods of war) into such

equations, a series of numbers could be obtained in which certain laws should exist and might be discovered.

The tactical rule that an army should act in masses when attacking, and in smaller groups in retreat, unconsciously confirms the truth that the strength of an army depends on its spirit. To lead men forward under fire more discipline (obtainable only by movement in masses) is needed than is needed to resist attacks. But this rule which leaves out of account the spirit of the army continually proves incorrect and is in particularly striking contrast to the facts when some strong rise or fall in the spirit of the troops occurs, as in all national wars.

The French, retreating in 1812--though according to tactics they should have separated into detachments to defend themselves-congregated into a mass because the spirit of the army had so fallen that only the mass held the army together. The Russians, on the contrary, ought according to tactics to have attacked in mass, but in fact they split up into small units, because their spirit had so risen that separate individuals, without orders, dealt blows at the French without needing any compulsion to induce them to expose themselves to hardships and dangers.

CHAPTER III

The so-called partisan war began with the entry of the French into Smolensk.

Before partisan warfare had been officially recognized by the government, thousands of enemy stragglers, marauders, and foragers had been destroyed by the Cossacks and the peasants, who killed them off as instinctively as dogs worry a stray mad dog to death. Denis Davydov, with his Russian instinct, was the first to recognize the value of this terrible cudgel which regardless of the rules of military science destroyed the French, and to him belongs the credit for taking the first step toward regularizing this method of warfare.

On August 24 Davydov's first partisan detachment was formed and then others were recognized. The further the campaign progressed the more numerous these detachments became.

The irregulars destroyed the great army piecemeal. They gathered the fallen leaves that dropped of themselves from that withered tree- the French army--and sometimes shook that tree itself. By October, when the French were fleeing toward Smolensk, there were hundreds of such companies, of various sizes and characters. There were some that adopted all the army methods and had infantry, artillery, staffs, and the comforts of life. Others consisted solely of Cossack cavalry. There were also small scratch groups of foot and horse, and groups of peasants and landowners that remained unknown. A sacristan commanded one party which captured several hundred prisoners in the course of a month; and there was Vasilisa, the wife of a village elder, who slew hundreds of the French.

The partisan warfare flamed up most fiercely in the latter days of October. Its first period had passed: when the partisans themselves, amazed at their own boldness, feared every minute to be surrounded and captured by the French, and hid in the forests without unsaddling, hardly daring to dismount and always expecting to be pursued. By the end of October this kind of warfare had taken definite shape: it had become clear to all what could be ventured against the French and what could not. Now only the commanders of detachments with staffs, and moving according to rules at a distance from the French, still regarded many things as impossible. The small bands that had started their activities long before and had already observed the French closely considered things possible which the commanders of the big detachments did not dare to contemplate. The Cossacks and peasants who crept in among the French now considered everything possible.

On October 22, Denisov (who was one of the irregulars) was with his group at the height of the guerrilla enthusiasm. Since early morning he and his party had been on the move. All day long he had been watching from the forest that skirted the highroad a large French convoy of cavalry baggage and Russian prisoners separated from the rest of the army, which--as was learned from spies and prisoners- was moving under a strong escort to Smolensk. Besides Denisov and Dolokhov (who also led a small party and moved in Denisov's vicinity), the commanders of some large divisions with staffs also knew of this convoy and, as Denisov expressed it, were sharpening their teeth for it. Two of the commanders of large parties--one a Pole and the other a German--sent invitations to Denisov almost simultaneously, requesting him to join up with their divisions to attack the convoy.

"No, bwother, I have gwown mustaches myself," said Denisov on reading these documents, and he wrote to the German that, despite his heartfelt desire to serve under so valiant and renowned a general,

he had to forgo that pleasure because he was already under the command of the Polish general. To the Polish general he replied to the same effect, informing him that he was already under the command of the German.

Having arranged matters thus, Denisov and Dolokhov intended, without reporting matters to the higher command, to attack and seize that convoy with their own small forces. On October 22 it was moving from the village of Mikulino to that of Shamshevo. To the left of the road between Mikulino and Shamshevo there were large forests, extending in some places up to the road itself though in others a mile or more back from it. Through these forests Denisov and his party rode all day, sometimes keeping well back in them and sometimes coming to the very edge, but never losing sight of the moving French. That morning, Cossacks of Denisov's party had seized and carried off into the forest two wagons loaded with cavalry saddles, which had stuck in the mud not far from Mikulino where the forest ran close to the road. Since then, and until evening, the party had the movements of the French without attacking. It was necessary to let the French reach Shamshevo quietly without alarming them and then, after joining Dolokhov who was to come that evening to a consultation at a watchman's hut in the forest less than a mile from Shamshevo, to surprise the French at dawn, falling like an avalanche on their heads from two sides, and rout and capture them all at one blow.

In their rear, more than a mile from Mikulino where the forest came right up to the road, six Cossacks were posted to report if any fresh columns of French should show themselves.

Beyond Shamshevo, Dolokhov was to observe the road in the same way, to find out at what distance there were other French troops. They reckoned that the convoy had fifteen hundred men. Denisov had two hundred, and Dolokhov might have as many more, but the disparity of numbers did not deter Denisov. All that he now wanted to know was what troops these were and to learn that he had to capture a "tongue"--that is, a man from the enemy column. That morning's attack on the wagons had been made so hastily that the Frenchmen with the wagons had all been killed; only a little drummer boy had been taken alive, and as he was a straggler he could tell them nothing definite about the troops in that column.

Denisov considered it dangerous to make a second attack for fear of putting the whole column on the alert, so he sent Tikhon Shcherbaty, a peasant of his party, to Shamshevo to try and seize at least one of the French quartermasters who had been sent on in

advance.

CHAPTER IV

It was a warm rainy autumn day. The sky and the horizon were both the color of muddy water. At times a sort of mist descended, and then suddenly heavy slanting rain came down.

Denisov in a felt cloak and a sheepskin cap from which the rain ran down was riding a thin thoroughbred horse with sunken sides. Like his horse, which turned its head and laid its ears back, he shrank from the driving rain and gazed anxiously before him. His thin face with its short, thick black beard looked angry.

Beside Denisov rode an esaul,* Denisov's fellow worker, also in felt cloak and sheepskin cap, and riding a large sleek Don horse.

*A captain of Cossacks.

Esaul Lovayski the Third was a tall man as straight as an arrow, pale-faced,
fair-haired, with narrow light eyes and with calm self-satisfaction in his face and bearing. Though it was impossible to say in what the peculiarity of the horse and rider lay, yet at first glance at the esaul and Denisov one saw that the latter was wet and uncomfortable and was a man mounted on a horse, while looking at the esaul one saw that he was as comfortable and as much at ease as always and that he was not a man who had mounted a horse, but a man who was one with his horse, a being consequently possessed of twofold strength.

A little ahead of them walked a peasant guide, wet to the skin and wearing a gray peasant coat and a white knitted cap.

A little behind, on a poor, small, lean Kirghiz mount with an enormous tail and mane and a bleeding mouth, rode a young officer in a blue French overcoat.

Beside him rode an hussar, with a boy in a tattered French uniform and blue cap behind him on the crupper of his horse. The boy held on to the hussar with cold, red hands, and

raising his eyebrows gazed
about him with surprise. This was the French drummer boy captured that morning.

Behind them along the narrow, sodden, cutup forest road came hussars in threes and fours, and then Cossacks: some in felt cloaks, some in French greatcoats, and some with horsecloths over their heads. The horses, being drenched by the rain, all looked black whether chestnut or bay. Their necks, with their wet, close-clinging manes, looked strangely thin. Steam rose from them. Clothes, saddles, reins, were all wet, slippery, and sodden, like the ground and the fallen leaves that strewed the road. The men sat huddled up trying not to stir, so as to warm the water that had trickled to their bodies and not admit the fresh cold water that was leaking in under their seats, their knees, and at the back of their necks. In the midst of the outspread line of Cossacks two wagons, drawn by French horses and by saddled Cossack horses that had been hitched on in front, rumbled over the tree
stumps and branches and splashed through the
water that lay in the ruts.

Denisov's horse swerved aside to avoid a pool in the track and bumped his rider's knee against a tree.

"Oh, the devil!" exclaimed Denisov angrily, and showing his teeth he struck his horse three times with his whip, splashing himself and his comrades with mud.

Denisov was out of sorts both because of the rain and also from hunger (none of them had eaten anything since morning), and yet more because he still had no news from Dolokhov and the man sent to capture a "tongue" had not returned.

"There'll hardly be another such chance to fall on a transport as today. It's too risky to attack them by oneself, and if we put it off till another day one of the big guerrilla detachments will snatch the prey from under our noses," thought Denisov, continually peering forward, hoping to see a messenger from Dolokhov.

On coming to a path in the forest along which he could see far to the right, Denisov stopped.

"There's someone
coming," said he.

The esaul looked in the direction Denisov indicated.

"There are two, an officer and a Cossack. But it is not

presupposable that it is the lieutenant colonel himself," said the esaul, who was fond of using words the Cossacks did not know.

The approaching riders having descended a decline were no longer visible, but they reappeared a few minutes later. In front, at a weary gallop and using his leather whip, rode an officer, disheveled and drenched, whose trousers had worked up to above his knees. Behind him, standing in the stirrups, trotted a Cossack. The officer, a very young lad with a broad rosy face and keen merry eyes, galloped up to Denisov and handed him a sodden envelope.

"From the general," said the officer. "Please excuse its not being quite dry."

Denisov, frowning, took the envelope and opened it.

"There, they kept telling us: 'It's dangerous, it's dangerous,'" said the officer, addressing the esaul while Denisov was reading the dispatch. "But Komarov
and I"--he pointed to the Cossack--"were
prepared. We have each of us two pistols.... But what's this?" he asked, noticing the French drummer boy. "A prisoner? You've already been in action? May I speak to him?"

"Wostov! Petya!" exclaimed Denisov, having run through the dispatch. "Why didn't you say who you were?" and turning with a smile he held out his hand to the lad.

The officer was Petya Rostov.

All the way Petya had been preparing himself to behave with Denisov as befitted a grownup man and an officer--without hinting at their previous acquaintance. But as soon as Denisov smiled at him Petya brightened up, blushed with pleasure, forgot the official manner he had been rehearsing, and began telling him how he had already been in a battle near Vyazma and how a certain hussar had distinguished himself there.

"Well, I am glad to see you," Denisov interrupted him, and his face again assumed its anxious expression.

"Michael Feoklitych," said he to the esaul, "this is again fwom
that
German, you know. He"--he indicated Petya--"is serving under him."

And Denisov told the esaul that the dispatch just delivered was a repetition of the German general's demand that he should join forces with him for an attack on the transport.

"If we don't take it tomowwow, he'll snatch it fwom under our noses," he added.

While Denisov was talking to the esaul, Petya--abashed by Denisov's cold tone and supposing that it was due to the condition of his trousers--furtively tried to pull them down under his greatcoat so that no one should notice it, while maintaining as martial an air as possible.

"Will there be any orders, your honor?" he asked Denisov, holding his hand at the salute and resuming the game of adjutant and general for which he had prepared himself, "or shall I remain with your honor?"

"Orders?" Denisov repeated thoughtfully. "But can you stay till tomowwow?"

"Oh, please... May I stay with you?" cried Petya.

"But, just what did the genewal tell you? To weturn at once?"
asked Denisov.

Petya blushed.

"He gave me no instructions. I think I could?" he returned, inquiringly.

"Well, all wight," said Denisov.

And turning to his men he directed a party to go on to the halting place arranged near the watchman's hut in the forest, and told the officer on the Kirghiz horse (who performed the duties of an adjutant) to go and find out where Dolokhov was and whether he would come that evening. Denisov himself intended going with the esaul and Petya to the edge of the forest where it reached out to Shamshevo, to have a look at the part of the French bivouac they were to attack next day.

"Well, old fellow," said he to the peasant guide, "lead us to Shamshevo."

Denisov, Petya, and the esaul, accompanied by some Cossacks and the hussar who had the prisoner, rode to the left across a ravine to the edge of the forest.

CHAPTER V

The rain had stopped, and only the mist was falling and drops from the trees. Denisov, the esaul, and Petya rode silently, following the peasant in the knitted cap who, stepping lightly with outturned toes and moving noiselessly in his bast shoes over the roots and wet leaves, silently led them to the edge of the forest.

He ascended an incline, stopped, looked about him, and advanced to where the screen of trees was less dense. On reaching a large oak tree that had not yet shed its leaves, he stopped and beckoned mysteriously to them with his hand.

Denisov and Petya rode up to him. From the spot where the peasant was standing they could see the French. Immediately beyond the forest, on a downward slope, lay a field of spring rye. To the right, beyond a steep ravine, was a small village and a landowner's house with a broken roof. In the village, in the house, in the garden, by the well, by the pond, over all the rising ground, and all along the road uphill from the bridge leading to the village, not more than five hundred yards away, crowds of men could be seen through the shimmering mist. Their un-Russian shouting at their horses which were straining uphill with the carts, and their calls to one another, could be clearly heard.

"Bwing the prisoner here," said Denisov in a low voice, not taking his eyes off the French.

A Cossack dismounted, lifted the boy down, and took him to Denisov. Pointing to the French troops, Denisov asked him what these and those of them were. The boy, thrusting his cold hands into his pockets and lifting his eyebrows, looked at Denisov in affright, but in spite of an evident desire to say all he knew gave confused answers, merely assenting to everything Denisov asked him. Denisov turned away from him frowning and addressed the esaul, conveying his own conjectures to him.

Petya, rapidly turning his head, looked now at the drummer boy, now at Denisov, now at the esaul, and now at the French in the village and along the road, trying not to miss anything of importance.

"Whether Dolokhov comes or not, we must seize it, eh?" said Denisov with a merry sparkle in

his eyes.

"It is a very suitable spot," said the esaul.

"We'll send the infantwy down by the swamps," Denisov continued. "They'll cweep up to the garden; you'll wide up fwom there with the Cossacks"--he pointed to a spot in the forest beyond the village--"and I with my hussars fwom here. And at the signal shot..."

"The hollow is impassable--there's a swamp there," said the esaul. "The horses would sink. We must ride round more to the left...."

While they were talking in undertones the crack of a shot sounded from the low ground by the pond, a puff of white smoke appeared, then another, and the sound of hundreds of seemingly merry French voices shouting together came up from the slope. For a moment Denisov and the esaul drew back. They were so near that they thought they were the cause of the firing and shouting. But the firing and shouting did not relate to them. Down below, a man wearing something red was running through the marsh. The French were evidently firing and shouting at
him.

"Why, that's our Tikhon," said the esaul.

"So it is! It is!"

"The wascal!" said Denisov.

"He'll get away!" said the esaul, screwing up his eyes.

The man whom they called Tikhon, having run to the stream, plunged in so that the water splashed in the air, and, having disappeared for an instant, scrambled out on all fours, all black with the wet, and ran on. The French who had been pursuing him stopped.

"Smart, that!" said the esaul.

"What a beast!" said Denisov with his former look of vexation. "What has he been doing all this time?"

"Who is he?" asked Petya.

"He's our plastun. I sent him to capture a 'tongue.'"

"Oh, yes," said Petya, nodding at the first words Denisov uttered as if he understood it all, though he really did not understand anything of it.

Tikhon Shcherbaty was one of the most indispensable men in their band. He was a peasant from Pokrovsk, near the river Gzhat. When Denisov had come to Pokrovsk at the beginning of his operations and had as usual summoned
the village elder and asked him what he knew
about the French, the elder, as though shielding himself, had replied, as all village elders did, that he had neither seen nor heard anything of them. But when Denisov explained that his purpose was to kill the French, and asked if no French had strayed that way, the elder replied that some "more-orderers" had really been at their village, but that Tikhon Shcherbaty was the only man who dealt with such matters. Denisov had Tikhon called and, having praised him for his activity, said a few words in the elder's presence about loyalty to the Tsar and the country and the hatred of the French that all sons of the fatherland should cherish.

"We don't do the French any harm," said Tikhon, evidently frightened by Denisov's words. "We only fooled about with the lads for fun, you know! We killed a score or so of 'more-orderers,' but we did no harm else..."

Next day when Denisov had left Pokrovsk, having quite forgotten about this peasant, it was reported
to him that Tikhon had attached
himself to their party and asked to be allowed to remain with it. Denisov gave orders to let him do so.

Tikhon, who at first did rough work, laying campfires, fetching water, flaying dead horses, and so on, soon showed a great liking and aptitude for partisan warfare. At night he would go out for booty and always brought back French clothing and weapons, and when told to would bring in French captives also. Denisov then relieved him from drudgery and began taking him with him when he went out on expeditions and had him enrolled among the Cossacks.

Tikhon did not like riding, and always went on foot, never lagging behind the cavalry. He was armed with a musketoon (which he carried rather as a joke), a pike and an ax, which latter he used as a wolf uses its teeth, with equal case picking fleas out of its fur or crunching thick bones. Tikhon with equal accuracy would split logs with blows at arm's length, or holding the head of the ax would cut thin
little pegs or carve spoons. In Denisov's party he held a peculiar and exceptional position. When anything particularly difficult or nasty had to be done--to push a cart out of the mud with one's shoulders, pull a horse out of a swamp by its tail, skin it, slink in among the French, or walk more than thirty miles in a

day--everybody pointed laughingly at Tikhon.

"It won't hurt that devil--he's as strong as a horse!" they said of him.

Once a Frenchman Tikhon was trying to capture fired a pistol at him and shot him in the fleshy part of the back. That wound (which Tikhon treated only with internal and external applications of vodka) was the subject of the liveliest jokes by the whole detachment-jokes in which Tikhon readily joined.

"Hallo, mate! Never again? Gave you a twist?" the Cossacks would banter him. And Tikhon, purposely writhing and making faces, pretended to be angry and swore at the French with the funniest curses. The only effect of this incident on Tikhon was that after being wounded he seldom brought in prisoners.

He was the bravest and most useful man in the party. No one found more opportunities for attacking, no one captured or killed more Frenchmen, and consequently he was made the buffoon of all the Cossacks and hussars and willingly accepted that role. Now he had been sent by Denisov overnight to Shamshevo to capture a "tongue." But whether because he had not been content to take only one Frenchman or because he had slept through the night, he had crept by day into some bushes right among the French and, as Denisov had witnessed from above, had been detected by them.

CHAPTER VI

After talking for some time with the esaul about next day's attack, which now, seeing how near they were to the French, he seemed to have definitely decided on, Denisov turned his horse and rode back.

"Now, my lad, we'll go and get dwy," he said to Petya.

As they approached the watchhouse Denisov stopped, peering into the forest. Among the trees a man with long legs and long, swinging arms, wearing a short jacket, bast shoes, and a Kazan hat, was approaching with long, light steps. He had a musketoon over his shoulder and an ax stuck in his girdle. When he espied Denisov he

hastily threw something into the bushes, removed his sodden hat by its floppy brim, and approached his commander. It was Tikhon. His wrinkled and pockmarked face and narrow little eyes beamed with self-satisfied merriment. He lifted his head high and gazed at Denisov as if repressing a laugh.

"Well, where did you disappear to?" inquired Denisov.

"Where did I disappear to? I went to get Frenchmen," answered Tikhon boldly and hurriedly, in a husky but melodious bass voice.

"Why did you push yourself in there by daylight? You ass! Well, why haven't you taken one?"

"Oh, I took one all right," said Tikhon.

"Where is he?"

"You see, I took him first thing at dawn," Tikhon continued, spreading out his flat feet with outturned toes in their bast shoes. "I took him into the forest. Then I see he's no good and think I'll go and fetch a likelier one."

"You see?... What a wogue--it's just as I thought," said Denisov to the esaul. "Why didn't you bwing that one?"

"What was the good of bringing him?" Tikhon interrupted hastily and angrily--"that one wouldn't have done for you. As if I don't know what sort you want!"

"What a bwute you are!... Well?"

"I went for another one," Tikhon continued, "and I crept like this through the wood and lay down." (He suddenly lay down on his stomach with a supple movement to show how he had done it.) "One turned up and I grabbed him, like this." (He jumped up quickly and lightly.) "'Come along to the colonel,' I said. He starts yelling, and suddenly there were four of them. They rushed at me with their little swords. So I went for them with my ax, this way: 'What are you up to?' says I. 'Christ be with you!'" shouted Tikhon, waving his arms with an angry scowl and throwing out his chest.

"Yes, we saw from the hill how you took to your heels through the puddles!" said the esaul, screwing up his glittering eyes.

Petya badly wanted to laugh, but noticed that they all refrained

from laughing. He turned his eyes rapidly from Tikhon's face to the esaul's and Denisov's, unable to make out what it all meant.

"Don't play the fool!" said Denisov, coughing angrily. "Why didn't you bwing the first one?"

Tikhon scratched his back with one hand and his head with the other, then suddenly his whole face expanded into a beaming, foolish grin, disclosing a gap where he had lost a tooth (that was why he was called Shcherbaty--the gap-toothed). Denisov smiled, and Petya burst into a peal of merry laughter in which Tikhon himself joined.

"Oh, but he was a regular good-for-nothing," said Tikhon. "The clothes on him--poor stuff! How could I bring him? And so rude, your honor! Why, he says: 'I'm a general's son myself, I won't go!' he says."

"You are a bwute!" said Denisov. "I wanted to question..."

"But I questioned him,"
said Tikhon. "He said he didn't know much.
'There are a lot of us,' he says, 'but all poor stuff--only soldiers in name,' he says. 'Shout loud at them,' he says, 'and you'll take them all,'" Tikhon concluded, looking cheerfully and resolutely into Denisov's eyes.

"I'll give you a hundwed sharp lashes--that'll teach you to play the fool!" said Denisov severely.

"But why are you angry?" remonstrated Tikhon, "just as if I'd never seen your Frenchmen! Only wait till it gets dark and I'll fetch you any of them you want--three if you like."

"Well, let's go," said Denisov, and rode all the way to the watchhouse in silence and frowning angrily.

Tikhon followed behind and Petya heard the Cossacks laughing with him and at him, about some pair of boots he had thrown into the bushes.

When the fit of laughter that had seized him at Tikhon's words and smile had passed and Petya realized for a moment that this Tikhon had killed a man, he felt uneasy. He looked round at the captive drummer boy
and felt a pang in his heart. But this uneasiness lasted only a moment. He felt it necessary to hold his head higher, to brace himself, and to question the esaul with an air of importance about tomorrow's undertaking, that he might not be unworthy of the

company in which he found himself.

The officer who had been sent to inquire met Denisov on the way with the news that Dolokhov was soon coming and that all was well with him.

Denisov at once cheered up and, calling Petya to him, said: "Well, tell me about yourself."

CHAPTER VII

Petya, having left his people after their departure from Moscow, joined his regiment and was soon taken as orderly by a general commanding a large guerrilla detachment. From the time he received his commission, and especially since he had joined the active army and taken part in the battle of Vyazma, Petya had been in a constant state of blissful excitement at being grown-up and in a perpetual ecstatic hurry not to miss any chance to do something really heroic. He was highly delighted with what he saw and experienced in the army, but at the same time it always seemed to him that the really heroic exploits were being performed just where he did not happen to be. And he was always in a hurry to get where he was not.

When on the twenty-first of October his general expressed a wish to send somebody to Denisov's detachment, Petya begged so piteously to be sent that the general could not refuse. But when dispatching him he recalled Petya's mad action at the battle of Vyazma, where instead of riding by the road to the place to which he had been sent, he had galloped to the advanced line under the fire of the French and had there twice fired his pistol. So now the general explicitly forbade his taking part in any action whatever of Denisov's. That was why Petya had blushed and grown confused when Denisov asked him whether he could stay. Before they had ridden to the outskirts of the forest Petya had considered he must carry out his instructions strictly and return at once. But when he saw the French and saw Tikhon and learned that there would certainly be an attack that night, he decided, with the rapidity with which young people change their views, that the general, whom he had greatly respected till then, was a rubbishy German, that Denisov was a hero, the esaul a hero, and Tikhon a hero too, and that it would be shameful for him to leave them at a moment of difficulty.

It was already growing dusk when Denisov, Petya, and the esaul rode up to the watchhouse. In the twilight saddled horses could be seen, and Cossacks and hussars who had rigged up rough shelters in the glade and were kindling glowing fires in a hollow of the forest where the French could not see the smoke. In the passage of the small watchhouse a Cossack with sleeves rolled up was chopping some mutton. In the room three officers of Denisov's band were converting a door into a tabletop. Petya took off his wet clothes, gave them to be dried, and at once began helping the officers to fix up the dinner table.

In ten minutes the table was ready and a napkin spread on it. On the table were vodka, a flask of rum, white bread, roast mutton, and salt.

Sitting at table with the officers and tearing the fat savory mutton with his hands, down which the grease trickled, Petya was in an ecstatic childish state of love for all men, and consequently of confidence that others loved him in the same way.

"So then what do you think, Vasili Dmitrich?" said he to Denisov. "It's all right my staying a day with you?" And not waiting for a reply he answered his own question: "You see I was told to find out- well, I am finding out.... Only do let me into the very... into the chief... I don't want a reward... But I want..."

Petya clenched his teeth and looked around, throwing back his head and flourishing his arms.

"Into the vewy chief..." Denisov repeated with a smile.

"Only, please let me command something, so that I may really command..." Petya went on. "What would it be to you?... Oh, you want a knife?" he said, turning to an officer who wished to cut himself a piece of mutton.

And he handed him his clasp knife. The officer admired it.

"Please keep it. I have several like it," said Petya, blushing. "Heavens! I was quite forgetting!" he suddenly cried. "I have some raisins, fine ones; you know, seedless ones. We have a new sutler and he has such capital things. I bought ten pounds. I am used to something sweet. Would you like some?..." and Petya ran out into the passage to his Cossack and brought back some bags which contained about five pounds of raisins. "Have some, gentlemen, have some!"

"You want a coffeepot, don't you?" he asked the esaul. "I bought a

capital one from our sutler! He has splendid things. And he's very honest, that's the chief thing. I'll be sure to send it to you. Or perhaps your flints are giving out, or are worn out--that happens sometimes, you know. I have brought some with me, here they are"- and he showed
a bag--"a hundred flints. I bought them very cheap. Please take as many as you want, or all if you like...."

Then suddenly, dismayed lest he had said too much, Petya stopped and blushed.

He tried to remember whether he had not done anything else that was foolish. And running over the events of the day he remembered the French drummer boy. "It's capital for us here, but what of him? Where have they put him? Have they fed him? Haven't they hurt his feelings?" he thought. But having caught himself saying too much about the flints, he was now afraid to speak out.

"I might ask," he thought, "but they'll say: 'He's a boy himself and so he pities the boy.' I'll show them tomorrow whether I'm a boy. Will it seem odd if I ask?" Petya thought. "Well, never mind!" and immediately, blushing and looking anxiously at the officers to see if they appeared ironical, he said:

"May I call in that boy who was taken prisoner and give him something to eat?... Perhaps..."

"Yes, he's a poor little
fellow," said Denisov, who evidently saw nothing shameful in this reminder. "Call him in. His name is Vincent Bosse. Have him fetched."

"I'll call him," said Petya.

"Yes, yes, call him. A poor little fellow," Denisov repeated.

Petya was standing at the door when Denisov said this. He slipped in between the officers, came close to Denisov, and said:

"Let me kiss you, dear old fellow! Oh, how fine, how splendid!"

And having kissed Denisov he ran out of the hut.

"Bosse! Vincent!" Petya cried, stopping outside the door.

"Who do you want, sir?" asked a voice in the darkness.

Petya replied that he wanted the French lad who had been captured

that day.

"Ah, Vesenny?" said a Cossack.

Vincent, the boy's name, had already been changed by the Cossacks into Vesenny (vernal) and into Vesenya by the peasants and soldiers. In both these adaptations the reference to spring (vesna) matched the impression made by the young lad.

"He is warming himself there by the bonfire. Ho, Vesenya! Vesenya!--Vesenny!" laughing voices were heard calling to one another in the darkness.

"He's a smart lad," said an hussar standing near Petya. "We gave him something to eat a while ago. He was awfully hungry!"

The sound of bare feet splashing through the mud was heard in the darkness, and the drummer boy came to the door.

"Ah, c'est vous!" said Petya. "Voulez-vous manger? N'ayez pas peur, on ne vous fera pas de mal,"* he added shyly and affectionately, touching the boy's hand. "Entrez, entrez."*[2]

*"Ah, it's you! Do you want something to eat? Don't be afraid, they won't hurt you."

*[2] "Come in, come in."

"Merci, monsieur,"* said the drummer boy in a trembling almost childish voice, and he began scraping his dirty feet on the threshold.

*"Thank you, sir."

There were many things Petya wanted to say to the drummer boy, but did not dare to. He stood irresolutely beside him in the passage. Then in the darkness he took the boy's hand and pressed it.

"Come in, come in!" he repeated in a gentle whisper. "Oh, what can I do for him?" he thought, and opening the door he let the boy pass in first.

When the boy had entered the hut, Petya sat down at a distance

from him, considering it beneath his dignity to pay attention to him. But he fingered the money in his pocket and wondered whether it would seem ridiculous to give some to the drummer boy.

CHAPTER VIII

The arrival of Dolokhov diverted Petya's attention from the drummer boy, to whom Denisov had had some mutton and vodka given, and whom he had had dressed in a Russian coat so that he might be kept with their band and not sent away with the other prisoners. Petya had heard in the army many stories of Dolokhov's extraordinary bravery and of his cruelty to the French, so from the moment he entered the hut Petya did not take his eyes from him, but braced himself up more and more and held his head high, that he might not be unworthy even of such company.

Dolokhov's appearance amazed Petya by its simplicity.

Denisov wore a Cossack coat, had a beard, had an icon of Nicholas the Wonder-Worker on his breast, and his way of speaking and everything he did indicated his unusual position. But Dolokhov, who in Moscow had worn a Persian costume, had now the appearance of a most correct officer of the Guards. He was clean-shaven and wore a Guardsman's padded coat with an Order of St. George at his buttonhole and a plain forage cap set straight on his head. He took off his wet felt cloak in a corner of the room, and without greeting anyone went up to Denisov and began questioning him about the matter in hand. Denisov told him of the designs the large detachments had on the transport, of the message Petya had brought, and his own replies to both generals. Then he told him all he knew of the French detachment.

"That's so. But we must know what troops they are and their numbers," said Dolokhov. "It will be necessary to go there. We can't start the affair without knowing for certain how many there are. I like to work accurately. Here now--wouldn't one of these gentlemen like to ride over to the French camp with me? I have brought a spare uniform."

"I, I... I'll go with you!" cried Petya.

"There's no need for you to go at all," said Denisov, addressing Dolokhov, "and as for him, I won't let him go on any account."

"I like that!" exclaimed Petya. "Why shouldn't I go?"

"Because it's useless."

"Well, you must excuse me, because... because... I shall go, and that's all. You'll take me, won't you?" he said, turning to Dolokhov.

"Why not?" Dolokhov answered absently, scrutinizing the face of the French drummer boy. "Have you had that youngster with you long?" he asked Denisov.

"He was taken today but he knows nothing. I'm keeping him with me."

"Yes, and where do you put the others?" inquired Dolokhov.

"Where? I send them away and take a weceipt for them," shouted Denisov, suddenly flushing. "And I say boldly that I have not a single man's life on my conscience. Would it be difficult for you to send thirty or thwee hundwed men to town under escort, instead of staining- I speak bluntly--staining the honor of a soldier?"

"That kind of amiable talk would be suitable from this young count of sixteen," said Dolokhov with cold irony, "but it's time for you to drop it."

"Why, I've not said anything! I only say that I'll certainly go with you," said Petya shyly.

"But for you and me, old fellow, it's time to drop these amenities," continued Dolokhov, as if he found particular pleasure in speaking of this subject which irritated Denisov. "Now, why have you kept this lad?" he went on, swaying his head. "Because you are sorry for him! Don't we know those 'receipts' of yours? You send a hundred men away, and thirty get there. The rest either starve or get killed. So isn't it all the same not to send them?"

The esaul, screwing up his light-colored eyes, nodded approvingly.

"That's not the point. I'm not going to discuss the matter. I do not wish to take it on my conscience. You say they'll die. All wight. Only not by my fault!"

Dolokhov began laughing.

"Who has told them not to capture me these twenty times over? But if they did catch me they'd string me up to an aspen tree, and with all your chivalry just the same." He paused. "However, we must get to work. Tell the Cossack to fetch my kit. I have two French uniforms in it. Well, are you coming with me?" he asked Petya.

"I? Yes, yes, certainly!" cried Petya, blushing almost to tears and glancing at Denisov.

While Dolokhov had been disputing with Denisov what should be done with prisoners, Petya had once more felt awkward and restless; but again he had no time to grasp fully what they were talking about. "If grown-up, distinguished men think so, it must be necessary and right," thought he. "But above all Denisov must not dare to imagine that I'll obey him and that he can order me about. I will certainly go to the French camp with Dolokhov. If he can, so can I!"

And to all Denisov's persuasions, Petya replied
that he too was
accustomed to do everything accurately and not just anyhow, and that he never considered personal danger.

"For you'll admit that if we don't know for sure how many of them there are... hundreds of lives may depend on it, while there are only two of us. Besides, I want to go very much and certainly will go, so don't hinder me," said he. "It will only make things worse..."

CHAPTER IX

Having put on French greatcoats and shakos, Petya and Dolokhov rode to the clearing from which Denisov had reconnoitered the French camp, and emerging from the forest in pitch darkness they descended into the hollow. On reaching the bottom, Dolokhov told the Cossacks accompanying him to await him there and rode on at a quick trot along the road to the bridge. Petya, his heart in his mouth with excitement, rode by his side.

"If we're caught, I won't be taken alive! I have a pistol," whispered he.

"Don't talk Russian," said Dolokhov in a hurried whisper, and at that very moment

they heard through the darkness the challenge: "Qui vive?"* and the click of a musket.

*"Who goes there?"

The blood rushed to Petya's face and he grasped his pistol.

"Lanciers du 6-me,"* replied Dolokhov, neither hastening nor slackening his horse's pace.

*"Lancers of the 6th Regiment."

The black figure of a sentinel stood on the bridge.

"Mot d'ordre."*

*"Password."

Dolokhov reined in his horse and advanced at a walk.

"Dites donc, le colonel Gerard est ici?"* he asked.

*"Tell me, is Colonel Gerard here?"

"Mot d'ordre," repeated the sentinel, barring the way and not replying.

"Quand un officier fait sa ronde, les sentinelles ne demandent pas le mot d'ordre..." cried Dolokhov suddenly flaring up and riding straight at the sentinel. "Je vous demande si le colonel est ici."*

*"When an officer is making his round, sentinels don't ask him for the password.... I am asking you if the colonel is here."

And without waiting for an answer from the sentinel, who had stepped aside,
Dolokhov rode up the incline at a walk.

Noticing the black outline of a man crossing the road, Dolokhov stopped him and inquired where the commander and officers were. The man, a soldier with a sack over his shoulder, stopped, came close up to Dolokhov's horse, touched it with his hand, and explained simply and in a friendly way that the commander and the officers were higher up the hill to the right in the courtyard of the farm, as he called the landowner's house.

Having ridden up the road, on both sides of which French talk could be heard around the campfires, Dolokhov turned into the courtyard of the landowner's house. Having ridden in, he dismounted and approached a big blazing campfire, around which sat several men talking noisily. Something was boiling in a small cauldron at the edge of the fire and a soldier in a peaked cap and blue overcoat, lit up by the fire, was kneeling beside it stirring its contents with a ramrod.

"Oh, he's a hard nut to crack," said one of the officers who was sitting in the shadow at the other side of the fire.

"He'll make them get a move on, those fellows!" said another, laughing.

Both fell silent, peering out through the darkness at the sound of Dolokhov's and Petya's steps as they advanced to the fire leading their horses.

"Bonjour, messieurs!"* said Dolokhov loudly and clearly.

*"Good day, gentlemen."

There was a stir among the officers in the shadow beyond the fire, and one tall, long-necked officer, walking round the fire, came up to Dolokhov.

"Is that you, Clement?" he asked. "Where the devil...?" But, noticing his mistake, he broke off short and, with a frown, greeted Dolokhov as a stranger, asking what he could do for him.

Dolokhov said that he and his companion were trying to overtake their regiment, and addressing the company in general asked whether they knew anything of the 6th Regiment. None of them knew anything, and Petya thought the officers were beginning to look at him and Dolokhov with hostility and suspicion. For some seconds all were silent.

"If you were counting on the evening soup, you have come too late," said a voice from behind the fire with a repressed laugh.

Dolokhov replied that they were not hungry and must push on farther that night.

He handed the horses over to the soldier who was stirring the pot and squatted down on his heels by the fire beside the officer with the long neck. That officer did not take his eyes from Dolokhov and again asked to what regiment he belonged. Dolokhov, as if he had not heard the question, did not reply, but lighting a short French pipe which he took from his pocket began asking the officer in how far the road before them was safe from Cossacks.

"Those brigands are everywhere," replied an officer from behind the fire.

Dolokhov remarked that the Cossacks were a danger only to stragglers such as his companion and himself, "but probably they would not dare to attack large detachments?" he added inquiringly. No one replied.

"Well, now
he'll come away," Petya thought every moment as he stood by the campfire listening to the talk.

But Dolokhov restarted the conversation which had dropped and began putting direct questions as to how many men there were in the battalion, how many battalions, and how many prisoners. Asking about the Russian prisoners with that detachment, Dolokhov said:

"A horrid business dragging these corpses about with one! It would be better to shoot such rabble," and burst into loud laughter, so strange that Petya thought the French would immediately detect their disguise, and involuntarily took a step back from the campfire.

No one replied a word to Dolokhov's laughter, and a French officer whom they could not see (he lay wrapped in a greatcoat) rose and whispered something to a companion. Dolokhov got up and called to the soldier who was holding their horses.

"Will they bring our horses or not?" thought Petya, instinctively drawing nearer to Dolokhov.

The horses were brought.

"Good evening,

gentlemen," said Dolokhov.

Petya wished to say "Good night" but could not utter a word. The officers were whispering together. Dolokhov was a long time mounting his horse which would not stand still, then he rode out of the yard at a footpace. Petya rode beside him, longing to look round to see whether or no the French were running after them, but not daring to.

Coming out onto the road Dolokhov did not ride back across the open country, but through the village. At one spot he stopped and listened. "Do you hear?" he asked. Petya recognized the sound of Russian voices and saw the dark figures of Russian prisoners round their campfires. When they had descended to the bridge Petya and Dolokhov rode past the sentinel, who without saying a word paced morosely up and down it, then they descended into the hollow where the Cossacks awaited them.

"Well now, good-by. Tell Denisov, 'at the first shot at daybreak,'" said Dolokhov and was about to ride away, but Petya seized hold of him.

"Really!"
he cried, "you are such a hero! Oh, how fine, how splendid! How I love you!"

"All right, all right!" said Dolokhov. But Petya did not let go of him and Dolokhov saw through the gloom that Petya was bending toward him and wanted to kiss him. Dolokhov kissed him, laughed, turned his horse, and vanished into the darkness.

CHAPTER X

Having returned to the watchman's hut, Petya found Denisov in the passage. He was awaiting Petya's return in a state of agitation, anxiety, and self-reproach for having let him go.

"Thank God!" he exclaimed. "Yes, thank God!" he repeated, listening to Petya's rapturous account. "But, devil take you, I haven't slept because of you! Well, thank God. Now lie down. We can still get a nap before morning."

"But... no," said Petya, "I don't want to sleep yet. Besides I know myself, if I fall asleep it's finished. And then I am used to not

sleeping before a battle."

He sat awhile in the hut joyfully recalling the details of his expedition and vividly
picturing to himself what would happen next day.

Then, noticing that Denisov was asleep, he rose and went out of doors.

It was still quite dark outside. The rain was over, but drops were still falling from the trees. Near the watchman's hut the black shapes of the Cossacks' shanties and of horses tethered together could be seen. Behind the hut the dark shapes of the two wagons with their horses beside them were discernible, and in the hollow the dying campfire gleamed red. Not all the Cossacks and hussars were asleep; here and there, amid the sounds of falling drops and the munching of the horses near by, could be heard low voices which seemed to be whispering.

Petya came out, peered into the darkness, and went up to the wagons. Someone was snoring under them, and around them stood saddled horses munching their oats. In the dark Petya recognized his own horse, which he called "Karabakh" though it was of Ukranian breed, and went up to it.

"Well, Karabakh! We'll do some service tomorrow,"
said he,
sniffing its nostrils and kissing it.

"Why aren't you asleep, sir?" said a Cossack who was sitting under a wagon.

"No, ah... Likhachev--isn't that your name? Do you know I have only just come back! We've been into the French camp."

And Petya gave the Cossack a detailed account not only of his ride but also of his object, and why he considered it better to risk his life than to act "just anyhow."

"Well, you should get some sleep now," said the Cossack.

"No, I am used to this," said Petya. "I say, aren't the flints in your pistols worn out? I brought some with me. Don't you want any? You can have some."

The Cossack bent forward from under the wagon to get a closer look

at Petya.

"Because I am accustomed to doing everything accurately," said Petya. "Some fellows do things just anyhow, without preparation, and then they're sorry for it afterwards. I don't like that."

"Just so," said the Cossack.

"Oh yes, another thing! Please, my dear fellow, will you sharpen my saber
for me? It's got bl..." (Petya feared to tell a lie, and the saber never had been sharpened.) "Can you do it?"

"Of course I can."

Likhachev got up, rummaged in his pack, and soon Petya heard the warlike sound of steel on whetstone. He climbed onto the wagon and sat on its edge. The Cossack was sharpening the saber under the wagon.

"I say! Are the lads asleep?" asked Petya.

"Some are, and some aren't--like us."

"Well, and that boy?"

"Vesenny? Oh, he's thrown himself down there in the passage. Fast asleep after his fright. He was that glad!"

After that Petya remained silent for a long time, listening to the sounds. He heard footsteps in the darkness and a black figure appeared.

"What are you sharpening?" asked a man coming up to the wagon.

"Why, this gentleman's saber."

"That's right," said the man, whom Petya took to be an hussar. "Was the cup left here?"

"There, by the wheel!"

The hussar took the cup.

"It must be daylight soon," said he, yawning, and went away.

Petya
ought to have known that he was in a forest with Denisov's guerrilla band, less than a mile from the road, sitting on a wagon

captured from the French beside which horses were tethered, that under it Likhachev was sitting sharpening a saber for him, that the big dark blotch to the right was the watchman's hut, and the red blotch below to the left was the dying embers of a campfire, that the man who had come for the cup was an hussar who wanted a drink; but he neither knew nor waited to know anything of all this. He was in a fairy kingdom where nothing resembled reality. The big dark blotch might really be the watchman's hut or it might be a cavern leading to the very depths of the earth. Perhaps the red spot was a fire, or it might be the eye of an enormous monster. Perhaps he was really sitting on a wagon, but it might very well be that he was not sitting on a wagon but on a terribly high tower from which, if he fell, he would have to fall for a whole day or a whole month, or go on falling
and never
reach the bottom. Perhaps it was just the Cossack, Likhachev, who was sitting under the wagon, but it might be the kindest, bravest, most wonderful, most splendid man in the world, whom no one knew of. It might really have been that the hussar came for water and went back into the hollow, but perhaps he had simply vanished--disappeared altogether and dissolved into nothingness.

Nothing Petya could have seen now would have surprised him. He was in a fairy kingdom where everything was possible.

He looked up at the sky. And the sky was a fairy realm like the earth. It was clearing, and over the tops of the trees clouds were swiftly sailing as if unveiling the stars. Sometimes it looked as if the clouds were passing, and a clear black sky appeared. Sometimes it seemed as if the black spaces were clouds. Sometimes the sky seemed to be rising high, high overhead, and then it seemed to sink so low that one could touch it with one's hand.

Petya's eyes began to close and he swayed
a little.

The trees were dripping. Quiet talking was heard. The horses neighed and jostled one another. Someone snored.

"Ozheg-zheg, Ozheg-zheg..." hissed the saber against the whetstone, and suddenly Petya heard an harmonious orchestra playing some unknown, sweetly solemn hymn. Petya was as musical as Natasha and more so than Nicholas, but had never learned music or thought about it, and so the melody that unexpectedly came to his mind seemed to him particularly fresh and attractive. The music became more and more audible. The melody grew and passed from one instrument to another. And what was played was a fugue--though Petya had not the least conception of what a fugue is. Each instrument--now resembling a violin and now a horn, but better and clearer than violin or horn-

played its own part, and before it had finished the melody merged with another instrument that began almost the same air, and then with a third and a fourth; and they all blended into one and again became separate
and again blended, now into solemn church music, now into something dazzlingly brilliant and triumphant.

"Oh--why, that was in a dream!" Petya said to himself, as he lurched forward. "It's in my ears. But perhaps it's music of my own. Well, go on, my music! Now!..."

He closed his eyes, and, from all sides as if from a distance, sounds fluttered, grew into harmonies, separated, blended, and again all mingled into the same sweet and solemn hymn. "Oh, this is delightful! As much as I like and as I like!" said Petya to himself. He tried to conduct that enormous orchestra.

"Now softly, softly die away!" and the sounds obeyed him. "Now fuller, more joyful. Still more and more joyful!" And from an unknown depth rose increasingly triumphant sounds. "Now voices join in!" ordered Petya. And at first from afar he heard men's voices and then women's. The voices grew in harmonious triumphant strength, and Petya listened to their surpassing beauty in awe and joy.

With a solemn triumphal march
there mingled a song, the drip from
the trees, and the hissing of the saber, "Ozheg-zheg-zheg..." and again the horses jostled one another and neighed, not disturbing the choir but joining in it.

Petya did not know how long this lasted: he enjoyed himself all the time, wondered at his enjoyment and regretted that there was no one to share it. He was awakened by Likhachev's kindly voice.

"It's ready, your honor; you can split a Frenchman in half with it!"

Petya woke up.

"It's getting light, it's really getting light!" he exclaimed.

The horses that had previously been invisible could now be seen to their very tails, and a watery light showed itself through the bare branches. Petya shook himself, jumped up, took a ruble from his pocket and gave it to Likhachev; then he flourished the saber, tested it, and sheathed it. The Cossacks were untying their horses and tightening their saddle girths.

"And here's the commander," said Likhachev.

Denisov came out of the watchman's hut and, having called Petya, gave orders to get ready.

CHAPTER XI

The men rapidly picked out their horses in the semidarkness, tightened their saddle girths, and formed companies. Denisov stood by the watchman's hut giving final orders. The infantry of the detachment passed along the road and quickly disappeared amid the trees in the mist of early dawn, hundreds of feet splashing through the mud. The esaul gave some orders to his men. Petya held his horse by the bridle, impatiently awaiting the order to mount. His face, having been bathed in cold water, was all aglow, and his eyes were particularly brilliant. Cold shivers ran down his spine and his whole body pulsed rhythmically.

"Well, is ev'wything weady?" asked Denisov. "Bwing the horses."

The horses were brought. Denisov was angry with the Cossack because the saddle girths were too slack, reproved him, and mounted. Petya put his foot in the stirrup. His horse by habit made as if to nip his leg, but Petya leaped quickly into the saddle unconscious of his own weight and, turning to look at the hussars starting in the darkness behind him, rode up to Denisov.

"Vasili Dmitrich, entrust me with some commission! Please... for God's sake...!" said he.

Denisov seemed to have forgotten Petya's very existence. He turned to glance at him.

"I ask one thing of you," he said sternly, "to obey me and not shove yourself forward anywhere."

He did not say another word to Petya but rode in silence all the way. When they had come to the edge of the forest it was noticeably growing light over the field. Denisov talked in whispers with the esaul and the Cossacks rode past Petya and Denisov. When they had all ridden by, Denisov touched his horse and rode down the hill. Slipping onto their haunches and sliding, the horses descended with their riders into the ravine. Petya rode beside Denisov, the pulsation

of his body constantly increasing. It was getting lighter and lighter, but the mist still hid distant objects. Having reached the valley, Denisov looked back and nodded to a Cossack beside him.

"The signal!" said he.

The Cossack raised his arm and a shot rang out. In an instant the tramp of horses galloping forward was heard, shouts came from various sides, and then more shots.

At the first sound of trampling hoofs and shouting, Petya lashed his horse and loosening his rein galloped forward, not heeding Denisov who shouted at him. It seemed to Petya that at the moment the shot was fired it suddenly became as bright as noon. He galloped to the bridge. Cossacks were galloping along the road in front of him. On the bridge he collided with a Cossack who had fallen behind, but he galloped on. In front of him soldiers, probably Frenchmen, were running from right to left across the road. One of them fell in the mud under his horse's feet.

Cossacks were crowding about a hut, busy with something. From the midst of that crowd terrible screams arose. Petya galloped up, and the first thing he saw was the pale face and trembling jaw of a Frenchman, clutching the handle of a lance that had been aimed at him.

"Hurrah!... Lads!... ours!" shouted Petya, and giving rein to his excited horse he galloped forward along the village street.

He could hear shooting ahead of him. Cossacks, hussars, and ragged Russian prisoners, who had come running from both sides of the road, were shouting something loudly and incoherently. A gallant-looking Frenchman, in a blue overcoat, capless, and with a frowning red face, had been defending himself against the hussars. When Petya galloped up the Frenchman had already fallen. "Too late again!" flashed through Petya's mind and he galloped on to the place from which the rapid firing could be heard. The shots came from the yard of the landowner's house he had visited the night before with Dolokhov. The French were making a stand there behind a wattle fence in a garden thickly overgrown with bushes and were firing at the Cossacks who crowded at the gateway. Through the smoke, as he approached the gate, Petya saw Dolokhov, whose face was of a pale-greenish tint, shouting to his men. "Go round! Wait for the infantry!" he exclaimed as Petya rode up to him.

"Wait?... Hurrah-ah-ah!" shouted Petya, and without pausing a moment

galloped to the place whence came the sounds of firing and where the smoke was thickest.

A volley was heard, and some bullets whistled past, while others plashed against something. The Cossacks and Dolokhov galloped after Petya into the gateway of the courtyard. In the dense wavering smoke some of the French threw down their arms and ran out of the bushes to meet the Cossacks, while others ran down the hill toward the pond. Petya was galloping along the courtyard, but instead of holding the reins he waved both his arms about rapidly and strangely, slipping farther and farther to one side in his saddle. His horse, having galloped up to a campfire that was smoldering in the morning light, stopped suddenly, and Petya fell heavily on to the wet
ground. The Cossacks saw that his arms and legs jerked rapidly though his head was quite motionless. A bullet had pierced his skull.

After speaking to the senior French officer, who came out of the house with a white handkerchief tied to his sword and announced that they surrendered, Dolokhov dismounted and went up to Petya, who lay motionless with outstretched arms.

"Done for!" he said with a frown, and went to the gate to meet Denisov who was riding toward him.

"Killed?" cried Denisov, recognizing from a distance the unmistakably lifeless attitude--very familiar to him--in which Petya's body was lying.

"Done for!" repeated Dolokhov as if the utterance of these words afforded him pleasure, and he went quickly up to the prisoners, who were surrounded by Cossacks who had hurried up. "We won't take them!" he called out to Denisov.

Denisov did not reply; he rode up to Petya, dismounted, and with trembling hands turned toward himself the bloodstained, mud-bespattered face which had
already gone white.

"I am used to something sweet. Raisins, fine ones... take them all!" he recalled Petya's words. And the Cossacks looked round in surprise at the sound, like the yelp of a dog, with which Denisov turned away, walked to the wattle fence, and seized hold of it.

Among the Russian prisoners rescued by Denisov and Dolokhov was Pierre Bezukhov.

CHAPTER XII

During the whole of their march from Moscow no fresh orders had been issued by the French authorities concerning the party of prisoners among whom was Pierre. On the twenty-second of October that party was no longer with the same troops and baggage trains with which it had left Moscow. Half the wagons laden with hardtack that had traveled the first stages with them had been captured by Cossacks, the other half had gone on ahead. Not one of those dismounted cavalrymen who had marched in front of the prisoners was left; they had all disappeared. The artillery the prisoners had seen in front of them during the first
days was now replaced by Marshal Junot's enormous baggage train, convoyed by Westphalians. Behind the prisoners came a cavalry baggage train.

From Vyazma onwards the French army, which had till then moved in three columns, went on as a single group. The symptoms of disorder that Pierre had noticed at their first halting place after leaving Moscow had now reached the utmost limit.

The road along which they moved was bordered on both sides by dead horses; ragged men who had fallen behind from various regiments continually changed about, now joining the moving column, now again lagging behind it.

Several times during the march false alarms had been given and the soldiers of the escort had raised their muskets, fired, and run headlong, crushing one another, but had afterwards reassembled and abused each other for their causeless panic.

These three groups traveling together--the cavalry stores, the convoy of prisoners, and Junot's baggage train--still constituted a separate and united
whole, though each of the groups was rapidly melting away.

Of the artillery baggage train which had consisted of a hundred and twenty wagons, not more than sixty now remained; the rest had been captured or left behind. Some of Junot's wagons also had been captured or abandoned. Three wagons had been raided and robbed by stragglers from Davout's corps. From the talk of the Germans Pierre learned that a larger guard had been allotted to that baggage train than to the prisoners, and that one of their comrades, a German soldier, had been shot by the marshal's own order because a silver spoon

belonging to the marshal had been found in his possession.

The group of prisoners had melted away most of all. Of the three hundred and thirty men who had set out from Moscow fewer than a hundred now remained. The prisoners were more burdensome to the escort than even the cavalry saddles or Junot's baggage. They understood that the saddles and Junot's spoon might be of some use, but that cold and hungry soldiers should have to stand and guard equally cold and hungry Russians who froze and lagged behind on the road (in which case the order was to shoot them) was not merely incomprehensible but revolting. And the escort, as if afraid, in the grievous condition they themselves were in, of giving way to the pity they felt for the prisoners and so rendering their own plight still worse, treated them with particular moroseness and severity.

At Dorogobuzh while the soldiers of the convoy, after locking the prisoners in a stable, had gone off to pillage their own stores, several of the soldier prisoners tunneled under the wall and ran away, but were recaptured by the French and shot.

The arrangement adopted when they started, that the officer prisoners should be kept separate from the rest, had long since been abandoned. All who could walk went together, and after the third stage Pierre had rejoined Karataev and the gray-blue bandy-legged dog that had chosen Karataev for its master.

On the third day after leaving Moscow Karataev again fell ill with the fever he had suffered from in the hospital in Moscow, and as he grew gradually weaker Pierre kept away from him. Pierre did not know why, but since Karataev had begun to grow weaker it had cost him an effort to go near him. When he did so and heard the subdued moaning with which Karataev generally lay down at the halting places, and when he smelled the odor emanating from him which was now stronger than before, Pierre moved farther away and did not think about him.

While imprisoned in the shed Pierre had learned not with his intellect but with his whole being, by life itself, that man is created for happiness, that happiness is within him, in the satisfaction of simple human needs, and that all unhappiness arises not from privation but from superfluity. And now during these last three weeks of the march he had learned still another new, consolatory truth--that nothing in this world is terrible. He had learned that as there is no condition in which man can be happy and entirely free, so there is no condition in which he need be unhappy and lack freedom. He learned that suffering and freedom have their limits and

that those limits are very near together; that the person in a bed of roses with one crumpled petal suffered as keenly as he now, sleeping on the bare damp earth with one side growing chilled while the other was warming; and that when he had put on tight dancing shoes he had suffered just as he did now when he walked with bare feet that were covered with sores--his footgear having long since fallen to pieces. He discovered that when he had married his wife--of his own free will as it had seemed to him--he had been no more free than now when they locked him up at night in a stable. Of all that he himself subsequently termed his sufferings, but which at the time he scarcely felt, the worst was the state of his bare, raw, and scab-covered feet. (The horseflesh was appetizing and nourishing, the saltpeter flavor of the gunpowder they used instead of salt was even pleasant; there was no great cold, it was always warm walking in the daytime, and at night there were the campfires; the lice that devoured him warmed his body.) The one thing that was at first hard to bear was his feet.

After the second day's march Pierre, having examined his feet by the campfire, thought it would be impossible to walk on them; but when everybody got up he went along, limping, and, when he had warmed up, walked without feeling the pain, though at night his feet were more terrible to look at than before. However, he did not look at them now, but thought of other things.

Only now did Pierre realize the full strength of life in man and the saving power he has of transferring his attention from one thing to another, which is like the safety valve of a boiler that allows superfluous steam to blow off when the pressure exceeds a certain limit.

He did not see and did not hear how they shot the prisoners who lagged behind, though more than a hundred perished in that way. He did not think of Karataev who grew weaker every day and evidently would soon have to share that fate. Still less did Pierre think about himself. The harder his position became and the more terrible the future, the more independent of that position in which he found himself were the joyful and comforting thoughts, memories, and imaginings that came to him.

CHAPTER XIII

At midday on the twenty-second of October Pierre was going uphill along the muddy, slippery road, looking at his feet and at the roughness of the way. Occasionally he glanced at the familiar crowd around him and then again at his feet. The former and the latter were alike familiar and his own. The blue-gray bandy legged dog ran merrily along the side of the road, sometimes in proof of its agility and self-satisfaction lifting one hind leg and hopping along on three, and then again going on all four and rushing to bark at the crows that sat
on the carrion. The dog was merrier and sleeker
than it had been in Moscow. All around lay the flesh of different animals--from men to horses--in various stages of decomposition; and as the wolves were kept off by the passing men the dog could eat all it wanted.

It had been raining since morning and had seemed as if at any moment it might cease and the sky clear, but after a short break it began raining harder than before. The saturated road no longer absorbed the water, which ran along the ruts in streams.

Pierre walked along, looking from side to side, counting his steps in threes, and reckoning them off on his fingers. Mentally addressing the rain, he repeated: "Now then, now then, go on! Pelt harder!"

It seemed to him that he was thinking of nothing, but far down and deep within him his soul was occupied with something important and comforting. This something was a most subtle spiritual deduction from a conversation with Karataev the day before.

At their yesterday's halting place,
feeling chilly by a dying
campfire, Pierre had got up and gone to the next one, which was burning better. There Platon Karataev was sitting covered up--head and all--with his greatcoat as if it were a vestment, telling the soldiers in his effective and pleasant though now feeble voice a story Pierre knew. It was already past midnight, the hour when Karataev was usually free of his fever and particularly lively. When Pierre reached the fire and heard Platon's voice enfeebled by illness, and saw his pathetic face brightly lit up by the blaze, he felt a painful prick at his heart. His feeling of pity for this man frightened him and he wished to go away, but there was no other fire, and Pierre sat down, trying not to look at Platon.

"Well, how are you?" he asked.

"How am I? If we grumble at sickness, God won't grant us death,"

replied Platon, and at once resumed the story he had begun.

"And so, brother," he continued, with a smile on his pale emaciated face and a particularly happy light in his eyes, "you see, brother..."

Pierre had long been familiar with that story. Karataev had told it to him alone some half-dozen times and always with a specially joyful emotion. But well as he knew it, Pierre now listened to that tale as to something new, and the quiet rapture Karataev evidently felt as he told it communicated itself also to Pierre. The story was of an old merchant who lived a good and God-fearing life with his family, and who went once to the Nizhni fair with a companion--a rich merchant.

Having put up at an inn they both went to sleep, and next morning his companion was found robbed and with his throat cut. A bloodstained knife was found under the old merchant's pillow. He was tried, knouted, and his nostrils having been torn off, "all in due form" as Karataev put it, he was sent to hard labor in Siberia.

"And so, brother" (it was at this point that Pierre came up), "ten years or more passed by. The old man was living as a convict, submitting as he should and doing no wrong. Only he prayed to God for death. Well, one night the convicts were gathered just as we are, with the old man among them. And they began telling what each was suffering for, and how they had sinned against God. One told how he had taken a life, another had taken two, a third had set a house on fire, while another had simply been a vagrant and had done nothing. So they asked the old man: 'What are you being punished for, Daddy?'--'I, my dear brothers,' said he, 'am being punished for my own and other men's sins. But I have not killed anyone or taken anything that was not mine, but have only helped my poorer brothers. I was a merchant, my dear brothers, and had much property. 'And he went on to tell them all about it in due order. 'I don't grieve for myself,' he says, 'God, it seems, has chastened me. Only I am sorry for my old wife and the children,' and the old man began to weep. Now it happened that in the group was the very man who had killed the other merchant.
'Where did it happen, Daddy?' he said. 'When, and in what month?' He asked all about it and his heart began to ache. So he comes up to the old man like this, and falls down at his feet! 'You are perishing because of me, Daddy,' he says. 'It's quite true, lads, that this man,' he says, 'is being tortured innocently and for nothing! I,' he says, 'did that deed, and I put the knife under your head while you were asleep. Forgive me, Daddy,' he says, 'for Christ's sake!'"

Karataev paused, smiling joyously as he gazed into the fire, and he drew the logs together.

"And the old man said, 'God will forgive you, we are all sinners in His sight. I suffer for my own sins,' and he wept bitter tears. Well, and what do you think, dear friends?" Karataev continued, his face brightening more and more with a rapturous smile as if what he now had to tell contained the chief charm and the whole meaning of his story: "What do you think, dear fellows? That murderer confessed to the authorities. 'I have taken six lives,' he says (he was a great sinner), 'but what I am most sorry for is this old man. Don't let him suffer because of me.' So he confessed and it was all written down and the papers sent off in due form. The place was a long way off, and while they were judging, what with one thing and another, filling in the papers all in due form--the authorities I mean--time passed. The affair reached the Tsar. After a while the Tsar's decree came: to set the merchant free and give him a compensation that had been awarded. The paper arrived and they began to look for the old man. 'Where is the old man who has been suffering innocently and in vain? A paper has come from the Tsar!' so they began looking for him," here Karataev's lower jaw trembled, "but God had already forgiven him--he was dead! That's how it was, dear fellows!" Karataev concluded and sat for a long time silent, gazing before him with a smile.

And Pierre's soul was dimly but joyfully filled not by the story itself but by its mysterious significance: by the rapturous joy that lit up Karataev's face as he told it, and the mystic significance of that joy.

CHAPTER XIV

"A vos places!"* suddenly cried a voice.

*"To your places."

A pleasant feeling of excitement and an expectation of something joyful and solemn was aroused among the soldiers of the convoy and the prisoners. From all sides came shouts of command, and from the left

came smartly dressed cavalrymen on good horses, passing the prisoners at a trot. The expression on all faces showed the tension people feel at the approach of those in authority. The prisoners thronged together and were pushed off the road. The convoy formed up.

"The Emperor! The Emperor! The Marshal! The Duke!" and hardly had the sleek cavalry passed, before a carriage drawn by six gray horses rattled by. Pierre caught a glimpse of a man in a three-cornered hat with a tranquil look on his handsome, plump, white face. It was one of the marshals. His eye fell on Pierre's large
and striking figure,
and in the expression with which he frowned and looked away Pierre thought he detected sympathy and a desire to conceal that sympathy.

The general in charge of the stores galloped after the carriage with a red and frightened face, whipping up his skinny horse. Several officers formed a group and some soldiers crowded round them. Their faces all looked excited and worried.

"What did he say? What did he say?" Pierre heard them ask.

While the marshal was passing, the prisoners had huddled together in a crowd, and Pierre saw Karataev whom he had not yet seen that morning. He sat in his short overcoat leaning against a birch tree. On his face, besides the look of joyful emotion it had worn yesterday while telling the tale of the merchant who suffered innocently, there was now an expression of quiet solemnity.

Karataev looked at Pierre with his kindly round eyes now filled with tears, evidently wishing him to come near that he might say something to him. But Pierre
was not sufficiently sure of himself.
He made as if he did not notice that look and moved hastily away.

When the prisoners again went forward Pierre looked round. Karataev was still sitting at the side of the road under the birch tree and two Frenchmen were talking over his head. Pierre did not look round again but went limping up the hill.

From behind, where Karataev had been sitting, came the sound of a shot. Pierre heard it plainly, but at that moment he remembered that he had not yet finished reckoning up how many stages still remained to Smolensk--a calculation he had begun before the marshal went by. And he again started reckoning. Two French soldiers ran past Pierre, one of whom carried a lowered and smoking gun. They both looked pale, and in the expression on their faces--one of them glanced timidly at Pierre--there was something resembling what he had seen on the face of the young soldier at the execution. Pierre looked at the soldier and

remembered that, two days before,
that man had burned his shirt
while drying it at the fire and how they had laughed at him.

Behind him, where Karataev had been sitting, the dog began to howl. "What a stupid beast! Why is it howling?" thought Pierre.

His comrades, the prisoner soldiers walking beside him, avoided looking back at the place where the shot had been fired and the dog was howling, just as Pierre did, but there was a set look on all their faces.

CHAPTER XV

The stores, the prisoners, and the marshal's baggage train stopped at the village of Shamshevo. The men crowded together round the campfires. Pierre went up to the fire, ate some roast horseflesh, lay down with his back to the fire, and immediately fell asleep. He again slept as he had done at Mozhaysk after the battle of Borodino.

Again real events mingled with dreams and again someone, he or another, gave expression to his thoughts, and even to the same thoughts that had been expressed in his dream at Mozhaysk.

"Life is everything. Life is God.
Everything changes and moves and
that movement is God. And while there is life there is joy in consciousness of the divine. To love life is to love God. Harder and more blessed than all else is to love this life in one's sufferings, in innocent sufferings."

"Karataev!" came to Pierre's mind.

And suddenly he saw vividly before him a long-forgotten, kindly old man who had given him geography lessons in Switzerland. "Wait a bit," said the old man, and showed Pierre a globe. This globe was alive--a vibrating ball without fixed dimensions. Its whole surface consisted of drops closely pressed together, and all these drops moved and changed places, sometimes several of them merging into one, sometimes one dividing into many. Each drop tried to spread out and occupy as much space as possible, but others striving to do the same compressed it, sometimes destroyed it, and sometimes merged with it.

"That is life," said the old teacher.

"How simple and clear it is," thought Pierre. "How is it
I did not
know it before?"

"God is in the midst, and each drop tries to expand so as to reflect
Him to the greatest extent. And it grows, merges, disappears from
the surface, sinks to the depths, and again emerges. There now,
Karataev has spread out and disappeared. Do you understand, my child?"
said the teacher.

"Do you understand, damn you?" shouted a voice, and Pierre woke up.

He lifted himself and sat up. A Frenchman who had just pushed a
Russian soldier away was squatting by the fire, engaged in roasting
a piece of meat stuck on a ramrod. His sleeves were rolled up and
his sinewy, hairy, red hands with their short fingers deftly turned
the ramrod. His brown morose face with frowning brows was clearly
visible by the glow of the charcoal.

"It's all the same to him," he muttered, turning quickly to a
soldier who stood behind him. "Brigand! Get away!"

And twisting the ramrod he looked gloomily at Pierre, who turned
away and gazed into the darkness. A prisoner, the Russian soldier
the
Frenchman had pushed away, was sitting near the fire patting
something with his hand. Looking more closely Pierre recognized the
blue-gray dog, sitting beside the soldier, wagging its tail.

"Ah, he's come?" said Pierre. "And Plat-" he began, but did not
finish.

Suddenly and simultaneously a crowd of memories awoke in his
fancy--of the look Platon had given him as he sat under the tree, of
the shot heard from that spot, of the dog's howl, of the guilty
faces of the two Frenchmen as they ran past him, of the lowered and
smoking gun, and of Karataev's absence at this halt--and he was on the
point of realizing that Karataev had been killed, but just at that
instant, he knew not why, the recollection came to his mind of a
summer evening he had spent with a beautiful Polish lady on the
veranda of his house in Kiev. And without linking up the events of the
day or drawing a conclusion from them, Pierre closed his eyes,
seeing a vision of the country in summertime mingled with memories
of
bathing and of the liquid, vibrating globe, and he sank into
water so that it closed over his head.

Before sunrise he was awakened by shouts and loud and rapid firing. French soldiers were running past him.

"The Cossacks!" one of them shouted, and a moment later a crowd of Russians surrounded Pierre.

For a long time he could not understand what was happening to him. All around he heard his comrades sobbing with joy.

"Brothers! Dear fellows! Darlings!" old soldiers exclaimed, weeping, as they embraced Cossacks and hussars.

The hussars and Cossacks crowded round the prisoners; one offered them clothes, another boots, and a third bread. Pierre sobbed as he sat among them and could not utter a word. He hugged the first soldier who approached him, and kissed him, weeping.

Dolokhov stood at the gate of the ruined house, letting a crowd of disarmed Frenchmen pass by. The French, excited by all that had happened, were talking loudly among themselves, but as they passed Dolokhov who gently
switched his boots with his whip and watched
them with cold glassy eyes that boded no good, they became silent. On the opposite side stood Dolokhov's Cossack, counting the prisoners and marking off each hundred with a chalk line on the gate.

"How many?" Dolokhov asked the Cossack.

"The second hundred," replied the Cossack.

"Filez, filez!"* Dolokhov kept saying, having adopted this expression from the French, and when his eyes met those of the prisoners they flashed with a cruel light.

*"Get along, get along!"

Denisov, bareheaded and with a gloomy face, walked behind some Cossacks who were carrying the body of Petya Rostov to a hole that had been dug in the garden.

CHAPTER XVI

After the twenty-eighth of October when the frosts began, the flight of the French assumed a still more tragic character, with men freezing, or roasting themselves to death at the campfires, while carriages with people dressed in furs continued to drive past, carrying away the property that had
been stolen by the Emperor, kings,
and dukes; but the process of the flight and disintegration of the French army went on essentially as before.

From Moscow to Vyazma the French army of seventy-three thousand men not reckoning the Guards (who did nothing during the whole war but pillage) was reduced to thirty-six thousand, though not more than five thousand had fallen in battle. From this beginning the succeeding terms of the progression could be determined mathematically. The French army melted away and perished at the same rate from Moscow to Vyazma, from Vyazma to Smolensk, from Smolensk to the Berezina, and from the Berezina to Vilna--independently of the greater or lesser intensity of the cold, the pursuit, the barring of the way, or any other particular conditions. Beyond Vyazma the French army instead of moving in three columns huddled together into one mass, and so went on to the end. Berthier wrote to his Emperor (we know how far commanding officers allow themselves to diverge
from the truth in
describing the condition of an army) and this is what he said:

I deem it my duty to report to Your Majesty the condition of the various corps I have had occasion to observe during different stages of the last two or three days' march. They are almost disbanded. Scarcely a quarter of the soldiers remain with the standards of their regiments, the others go off by themselves in different directions hoping to find food and escape discipline. In general they regard Smolensk as the place where they hope to recover. During the last few days many of the men have been seen to throw away their cartridges and their arms. In such a state of affairs, whatever your ultimate plans may be, the interest of Your Majesty's service demands that the army should be rallied at Smolensk and should first of all be freed from ineffectives, such as dismounted cavalry, unnecessary baggage, and artillery material that is no longer in proportion to the present forces. The soldiers, who are worn
out
with hunger and fatigue, need these supplies as well as a few days' rest. Many have died last days on the road or at the bivouacs. This state of things is continually becoming worse and makes one fear that unless a prompt remedy is applied the troops will no longer be under control in case of an engagement.

November 9: twenty miles from Smolensk.

After staggering into Smolensk which seemed to them a promised land, the French, searching for food, killed one another, sacked their own stores, and when everything had been plundered fled farther.

They all went without knowing whither or why they were going. Still less did that genius, Napoleon, know it, for no one issued any orders to him. But still he and those about him retained their old habits: wrote commands, letters, reports, and orders of the day; called one another sire, mon cousin, prince d'Eckmuhl, roi de Naples, and so on. But these orders and reports were only on paper, nothing in them was acted upon for they could not be carried out, and though they entitled one another Majesties, Highnesses, or Cousins, they all felt that they were miserable wretches who had done much evil for which they had now to pay. And though they pretended to be concerned about the army, each was thinking only of himself and of how to get away quickly and save himself.

CHAPTER XVII

The movements of the Russian and French armies during the campaign from Moscow back to the Niemen were like those in a game of Russian blindman's bluff, in which two players are blindfolded and one of them occasionally rings a little bell to inform the catcher of his whereabouts. First he rings his bell fearlessly, but when he gets into a tight place he runs away as quietly as he can, and often thinking to escape runs straight into his opponent's arms.

At first while they were still moving along the Kaluga road, Napoleon's armies made their presence known, but later when they reached the Smolensk road they ran holding the clapper of their bell tight--and often thinking they were escaping ran right into the Russians.

Owing to the rapidity of the French flight and the Russian pursuit and the consequent exhaustion of the horses, the chief means of approximately ascertaining the enemy's position--by cavalry scouting--was not available. Besides, as a result of the frequent and rapid change of position by each army, even what information was

obtained could not be delivered in time. If news was received one day that the enemy had been in a certain position the day before, by the third day when something could have been done, that army was already two days' march farther on and in quite another position.

One army fled and the other pursued. Beyond Smolensk there were several different roads available for the French, and one would have thought that during their stay of four days they might have learned where the enemy was, might have arranged some more advantageous plan and undertaken something new. But after a four days' halt the mob, with no maneuvers or plans, again began running along the beaten track, neither to the right nor to the left but along the old--the worst--road, through Krasnoe and Orsha.

Expecting the enemy from behind and not in front, the French separated in their flight and spread out over a distance of twenty-four hours. In front of them all fled the Emperor, then the kings, then the dukes. The Russian army, expecting Napoleon to take the road to the right beyond the Dnieper--which was the only reasonable thing for him to do--themselves turned to the right and came out onto the highroad at Krasnoe. And here as in a game of blindman's buff the French ran into our vanguard. Seeing their enemy unexpectedly the French fell into confusion and stopped short from the sudden fright, but then they resumed their flight, abandoning their comrades who were farther behind. Then for three days separate portions of the French army--first Murat's (the vice-king's), then Davout's, and then Ney's--ran, as it were, the gauntlet of the Russian army. They abandoned one another, abandoned all their heavy baggage, their artillery, and half their men, and fled, getting past the Russians by night by making semicircles to the right.

Ney, who came last, had been busying himself blowing up the walls of Smolensk which were in nobody's way, because despite the unfortunate plight of the French or because of it, they wished to punish the floor against which they had hurt themselves. Ney, who had had a corps of ten thousand men, reached Napoleon at Orsha with only one thousand men left, having abandoned all the rest and all his cannon, and having crossed the Dnieper at night by stealth at a wooded spot.

From Orsha they fled farther along the road to Vilna, still playing at blindman's buff with the pursuing army. At the Berezina they again became disorganized, many were drowned and many surrendered, but those who got across the river fled farther. Their supreme chief donned a fur coat and, having seated himself in a sleigh, galloped on alone, abandoning his companions. The others who

could do so drove away too, leaving those who could not to surrender or die.

CHAPTER XVIII

This campaign consisted in a flight of the French during which they did all they could to destroy themselves. From the time they turned onto the Kaluga road to the day their leader fled from the army, none of the movements of the crowd had any sense. So one might have thought that regarding this period of the campaign the historians, who attributed the actions of the mass to the will of one man, would have found it impossible to make the story of the retreat fit their theory. But no! Mountains of books have been written by the historians about this campaign, and everywhere are described Napoleon's arrangements, the maneuvers, and his profound plans which guided the army, as well as the military genius shown by his marshals.

The retreat from Malo-Yaroslavets when he had a free road into a well-supplied district and the parallel road was open to him along which Kutuzov afterwards pursued him--this unnecessary retreat along a devastated road--is explained to us as being due to profound considerations. Similarly profound considerations are given for his retreat from Smolensk to Orsha. Then his heroism at Krasnoe is described, where he is reported to have been prepared to accept battle and take personal command, and to have walked about with a birch stick and said:

"J'ai assez fait l'empereur; il est temps de faire le general,"* but nevertheless immediately ran away again, abandoning to its fate the scattered fragments of the army he left behind.

*"I have acted the Emperor long enough; it is time to act the general."

Then we are told of the greatness of soul of the marshals, especially of Ney--a greatness of soul consisting in this: that he made his way by night around through the forest and across the Dnieper and escaped to Orsha, abandoning standards, artillery, and nine tenths of

his men.

And lastly, the final departure of the great Emperor from his heroic army is presented to us by the historians as something great and characteristic of genius. Even that final running away, described in ordinary language as the lowest depth of baseness which every child is taught to be ashamed of--even that act finds justification in the historians' language.

When it is impossible to stretch the very elastic threads of historical ratiocination any farther, when actions are clearly contrary to all that humanity calls right or even just, the historians produce a saving conception of "greatness." "Greatness," it seems, excludes the standards of right and wrong. For the "great" man nothing is wrong, there is no atrocity for which a "great" man can be blamed.

"C'est grand!"* say the historians, and there no longer exists either good or evil but only "grand" and "not grand." Grand is good, not grand is bad. Grand is the characteristic, in their conception, of some special animals
called "heroes." And Napoleon, escaping home in a warm fur coat and leaving to perish those who were not merely his comrades but were (in his opinion) men he had brought there, feels que c'est grand,*[2] and his soul is tranquil.

*"It is great."

*[2] That it is great.

"Du sublime (he saw something sublime in himself) au ridicule il n'y a qu'un pas,"* said he. And the whole world for fifty years has been repeating: "Sublime! Grand! Napoleon le Grand!" Du sublime au ridicule il n'y a qu'un pas.

*"From the sublime to the ridiculous is but a step."

And it occurs to no one that to admit a greatness not commensurable with the standard of right and wrong is merely to admit one's own nothingness and immeasurable meanness.

For us with the standard of good and evil given us by Christ, no human actions are incommensurable. And there is no greatness where simplicity, goodness, and truth are absent.

CHAPTER XIX

What Russian, reading the account of the last part of the campaign of
1812, has not experienced an uncomfortable feeling of regret, dissatisfaction, and perplexity? Who has not asked himself how it is that the French were not all captured or destroyed when our three armies surrounded them in superior numbers, when the disordered French, hungry and freezing, surrendered in crowds, and when (as the historians relate) the aim of the Russians was to stop the French, to cut them off, and capture them all?

How was it that the Russian army, which when numerically weaker than the French had given battle at Borodino, did not achieve its purpose when it had surrounded the French on three sides and when its aim was to capture them? Can the French be so enormously superior to us that when we had surrounded them with superior forces we could not beat them? How could that happen?

History (or what is called by that name) replying to these questions says that this occurred because Kutuzov and Tormasov and Chichagov, and this man and that man, did not execute such and
such maneuvers...

But why did they not execute those maneuvers? And why if they were guilty of not carrying out a prearranged plan were they not tried and punished? But even if we admitted that Kutuzov, Chichagov, and others were the cause of the Russian failures, it is still incomprehensible why, the position of the Russian army being what it was at Krasnoe and at the Berezina (in both cases we had superior forces), the French army with its marshals, kings, and Emperor was not captured, if that was what the Russians aimed at.

The explanation of this strange fact given by Russian military historians (to the effect that Kutuzov hindered an attack) is unfounded, for we know that he could not restrain the troops from attacking at Vyazma and Tarutino.

Why was the Russian army--which with inferior forces had withstood the enemy in full strength at Borodino--defeated at Krasnoe and the Berezina by the disorganized crowds of the French when it was numerically superior?

If the aim of the
Russians consisted in cutting off and capturing
Napoleon and his marshals--and that aim was not merely frustrated
but all attempts to attain it were most shamefully baffled--then
this last period of the campaign is quite rightly considered by the
French to be a series of victories, and quite wrongly considered
victorious by Russian historians.

The Russian military historians in so far as they submit to claims
of logic must admit that conclusion, and in spite of their lyrical
rhapsodies about valor, devotion, and so forth, must reluctantly admit
that the French retreat from Moscow was a series of victories for
Napoleon and defeats for Kutuzov.

But putting national vanity entirely aside one feels that such a
conclusion involves a contradiction, since the series of French
victories brought the French complete destruction, while the series of
Russian defeats led to the total destruction of their enemy and the
liberation of their country.

The source of this contradiction lies in the fact
that the
historians studying the events from the letters of the sovereigns
and the generals, from memoirs, reports, projects, and so forth,
have attributed to this last period of the war of 1812 an aim that
never existed, namely that of cutting off and capturing Napoleon
with his marshals and his army.

There never was or could have been such an aim, for it would have
been senseless and its attainment quite impossible.

It would have been senseless, first because Napoleon's
disorganized army was flying from Russia with all possible speed, that
is to say, was doing just what every Russian desired. So what was
the use of performing various operations on the French who were
running away as fast as they possibly could?

Secondly, it would have been senseless to block the passage of men
whose whole energy was directed to flight.

Thirdly, it would have been senseless to sacrifice one's own
troops in order to destroy the French army, which without external
interference was destroying itself
at such a rate that, though its
path was not blocked, it could not carry across the frontier more than
it actually did in December, namely a hundredth part of the original
army.

Fourthly, it would have been senseless to wish to take captive the Emperor, kings, and dukes--whose capture would have been in the highest degree embarrassing for the Russians, as the most adroit diplomatists of the time (Joseph de Maistre and others) recognized. Still more senseless would have been the wish to capture army corps of the French, when our own army had melted away to half before reaching Krasnoe and a whole division would have been needed to convoy the corps of prisoners, and when our men were not always getting full rations and the prisoners already taken were perishing of hunger.

All the profound plans about cutting off and capturing Napoleon and his army were like the plan of a market gardener who, when driving out of his garden a cow that had trampled down the beds he had planted, should run to the gate and hit the cow on the head. The only thing to be said in excuse of that gardener would be that he was very angry. But not even that could be said for those who drew up this project, for it was not they who had suffered from the trampled beds.

But besides the fact that cutting off Napoleon with his army would have been senseless, it was impossible.

It was impossible first because--as experience shows that a three-mile movement of columns on a battlefield never coincides with the plans--the probability of Chichagov, Kutuzov, and Wittgenstein effecting a junction on time at an appointed place was so remote as to be tantamount to impossibility, as in fact thought Kutuzov, who when he received the plan remarked that diversions planned over great distances do not yield the desired results.

Secondly it was impossible, because to paralyze the momentum with which Napoleon's army was retiring, incomparably greater forces than the Russians possessed would have been required.

Thirdly it was impossible, because the military term "to cut off" has no meaning. One can cut off a slice of bread, but not an army. To cut off an army--to bar its road--is quite impossible, for there is always plenty of room to avoid capture and there is the night when nothing can be seen, as the military scientists might convince themselves by the example of Krasnoe and of the Berezina. It is only possible to capture prisoners if they agree to be captured, just as it is only possible to catch a swallow if it settles on one's hand. Men can only be taken prisoners if they surrender according to the rules of strategy and tactics, as the Germans did. But the French troops quite rightly did not consider that this suited them, since death by hunger and cold awaited them in flight or captivity alike.

Fourthly and chiefly it was impossible, because never since the world began has a war been fought under such conditions as those that obtained in 1812, and the Russian army in its pursuit of the French
strained its strength to the utmost and could not have done more without destroying itself.

During the movement of the Russian army from Tarutino to Krasnoe it lost fifty thousand sick or stragglers, that is a number equal to the population of a large provincial town. Half the men fell out of the army without a battle.

And it is of this period of the campaign--when the army lacked boots and sheepskin coats, was short of provisions and without vodka, and was camping out at night for months in the snow with fifteen degrees of frost, when there were only seven or eight hours of daylight and the rest was night in which the influence of discipline cannot be maintained, when men were taken into that region of death where discipline fails, not for a few hours only as in a battle, but for months, where they were every moment fighting death from hunger and cold, when half the army perished in a single month--it is of this period of the campaign that the historians tell us how Miloradovich should
have made a flank march to such and such a place, Tormasov to another place, and Chichagov should have crossed (more than knee-deep in snow) to somewhere else, and how so-and-so "routed" and "cut off" the French and so on and so on.

The Russians, half of whom died, did all that could and should have been done to attain an end worthy of the nation, and they are not to blame because other Russians, sitting in warm rooms, proposed that they should do what was impossible.

All that strange contradiction now difficult to understand between the facts and the historical accounts only arises because the historians dealing with the matter have written the history of the beautiful words and sentiments of various generals, and not the history of the events.

To them the words of Miloradovich seem very interesting, and so do their surmises and the rewards this or that general received; but the question of those fifty thousand men who were left in hospitals and in graves does not even
interest them, for it does not come within the range of their investigation.

Yet one need only discard the study of the reports and general plans

and consider the movement of those hundreds of thousands of men who took a direct part in the events, and all the questions that seemed insoluble easily and simply receive an immediate and certain solution.

The aim of cutting off Napoleon and his army never existed except in the imaginations of a dozen people. It could not exist because it was senseless and unattainable.

The people had a single aim: to free their land from invasion. That aim was attained in the first place of itself, as the French ran away, and so it was only necessary not to stop their flight. Secondly it was attained by the guerrilla warfare which was destroying the French, and thirdly by the fact that a large Russian army was following the French, ready to use its strength in case their movement stopped.

The Russian army had to act like a whip to a running animal. And the
experienced driver knew it was better to hold the whip raised as a menace than to strike the running animal on the head.

BOOK FIFTEEN: 1812 --13

CHAPTER I

When seeing a dying animal a man feels a sense of horror: substance similar to his own is perishing before his eyes. But when it is a beloved and intimate human being that is dying, besides this horror at the extinction of life there is a severance, a spiritual wound, which like a physical wound is sometimes fatal and sometimes heals, but always aches and shrinks at any external irritating touch.

After Prince Andrew's death Natasha and Princess Mary alike felt this. Drooping in spirit and closing their eyes before the menacing cloud of death that overhung them, they dared not look life in the face. They carefully guarded their open wounds from any rough and painful contact. Everything: a carriage passing rapidly in the street, a summons to dinner, the maid's inquiry what dress to prepare, or worse still any word of insincere

or feeble sympathy, seemed an
insult, painfully irritated the wound, interrupting that necessary
quiet in which they both tried to listen to the stern and dreadful
choir that still resounded in their imagination, and hindered their
gazing into those mysterious limitless vistas that for an instant
had opened out before them.

Only when alone together were they free from such outrage and
pain. They spoke little even to one another, and when they did it
was of very unimportant matters.

Both avoided any allusion to the future. To admit the possibility of
a future seemed to them to insult his memory. Still more carefully did
they avoid anything relating to him who was dead. It seemed to them
that what they had lived through and experienced could not be
expressed in words, and that any reference to the details of his
life infringed the majesty and sacredness of the mystery that had been
accomplished before their eyes.

Continued abstention from speech, and constant avoidance of
everything
that might lead up to the subject--this halting on all
sides at the boundary of what they might not mention--brought before
their minds with still greater purity and clearness what they were
both feeling.

But pure and complete sorrow is as impossible as pure and complete
joy. Princess Mary, in her position as absolute and independent
arbiter of her own fate and guardian and instructor of her nephew, was
the first to be called back to life from that realm of sorrow in which
she had dwelt for the first fortnight. She received letters from her
relations to which she had to reply; the room in which little Nicholas
had been put was damp and he began to cough; Alpatych came to
Yaroslavl with reports on the state of their affairs and with advice
and suggestions that they should return to Moscow to the house on
the Vozdvizhenka Street, which had remained uninjured and needed
only slight repairs. Life did not stand still and it was necessary
to live. Hard as it was for Princess Mary to
emerge from the realm
of secluded contemplation in which she had lived till then, and
sorry and almost ashamed as she felt to leave Natasha alone, yet the
cares of life demanded her attention and she involuntarily yielded
to them. She went through the accounts with Alpatych, conferred with
Dessalles about her nephew, and gave orders and made preparations
for the journey to Moscow.

Natasha remained alone and, from the time Princess Mary began making
preparations for departure, held aloof from her too.

Princess Mary asked the countess to let Natasha go with her to Moscow, and both parents gladly accepted this offer, for they saw their daughter losing strength every day and thought that a change of scene and the advice of Moscow doctors would be good for her.

"I am not going anywhere," Natasha replied when this was proposed to her. "Do please just leave me alone!" And she ran out of the room, with difficulty refraining from tears of vexation and irritation rather than of sorrow.

After she felt herself deserted by Princes Mary and alone in her grief, Natasha spent most of the time in her room by herself, sitting huddled up feet and all in the corner of the sofa, tearing and twisting something with her slender nervous fingers and gazing intently and fixedly at whatever her eyes chanced to fall on. This solitude exhausted and tormented her but she was in absolute need of it. As soon as anyone entered she got up quickly, changed her position and expression, and picked up a book or some sewing, evidently waiting impatiently for the intruder to go.

She felt all the time as if she might at any moment penetrate that on which--with a terrible questioning too great for her strength- her spiritual gaze was fixed.

One day toward the end of December Natasha, pale and thin, dressed in a black woolen gown, her plaited hair negligently twisted into a knot, was crouched feet and all in the corner of her sofa, nervously crumpling and smoothing out the end of her sash while she looked at a corner of the door.

She was gazing in the direction in which he had gone--to the other side of life. And that other side of life, of which she had never before thought and which had formerly seemed to her so far away and improbable, was now nearer and more akin and more comprehensible than this side of life, where everything was either emptiness and desolation or suffering and indignity.

She was gazing where she knew him to be; but she could not imagine him otherwise than as he had been here. She now saw him again as he had been at Mytishchi, at Troitsa, and at Yaroslavl.

She saw his face, heard his voice, repeated his words and her own, and sometimes devised other words they might have spoken.

There he is lying back in an armchair in his velvet cloak, leaning

his head on his thin pale hand. His chest is dreadfully hollow and his shoulders raised. His lips are firmly closed, his eyes glitter, and a wrinkle comes and goes on his pale forehead. One of his legs twitches just perceptibly, but rapidly. Natasha knows that he is struggling with terrible pain. "What is that pain like? Why does he have that pain? What does he feel? How does it hurt him?" thought Natasha. He noticed her watching him, raised his eyes, and began to speak seriously:

"One thing would be terrible," said he: "to bind oneself forever to a suffering man. It would be continual torture." And he looked searchingly at her. Natasha as usual answered before she had time to think what she would say. She said: "This can't go on--it won't. You will get well--quite well."

She now saw him from the commencement of that scene and relived what she had then felt. She recalled his long sad and severe look at those words and understood the meaning of the rebuke and despair in that protracted gaze.

"I agreed," Natasha now said to herself, "that it would be dreadful if he always continued to suffer. I said it then only because it would have been dreadful for him, but he understood it differently. He thought it would be dreadful for me. He then still wished to live and feared death. And I said it so awkwardly and stupidly! I did not say what I meant. I thought quite differently. Had I said what I thought, I should have said: even if he had to go on dying, to die continually before my eyes, I should have been happy compared with what I am now. Now there is nothing... nobody. Did he know that? No, he did not and never will know it. And now it will never, never be possible to put it right." And now he again seemed to be saying the same words to her, only in her imagination Natasha this time gave him a different answer. She stopped him and said: "Terrible for you, but not for me! You know that for me there is nothing in life but you, and to suffer with you is the greatest happiness for me," and he took her hand and pressed it as he had pressed it that terrible evening four days before his death. And in her imagination she said other tender and loving words which she might have said then but only spoke now: "I love thee!... thee! I love, love..." she said, convulsively pressing her hands and setting her teeth with a desperate effort...

She was overcome by sweet sorrow and tears were already rising in her eyes; then she suddenly asked herself to whom she was saying this. Again everything was shrouded in hard, dry perplexity, and again

with a strained frown she peered toward the world where he was. And now, now it seemed to her she was penetrating the mystery.... But at the instant when it seemed that the incomprehensible was revealing itself to her a loud rattle of the door handle struck painfully on her ears. Dunyasha, her maid, entered the room quickly and abruptly with a frightened look on her face and showing no concern for her mistress.

"Come to your Papa at once, please!" said she with a strange, excited look. "A misfortune... about Peter Ilynich... a letter," she finished with a sob.

CHAPTER II

Besides a feeling of aloofness from everybody Natasha was feeling a special estrangement from the members of her own family. All of them--her father, mother, and Sonya--were so near to her, so familiar, so commonplace, that all their words and feelings seemed an insult to the world in which she had been living of late, and she felt not merely indifferent to them but regarded them with hostility. She heard Dunyasha's words about Peter Ilynich and a misfortune, but did not grasp them.

"What misfortune? What misfortune can happen to them? They just live their own old, quiet, and commonplace life," thought Natasha.

As she entered the ballroom her father was hurriedly coming out of her mother's room. His face was puckered up and wet with tears. He had evidently run out of that room to give vent to the sobs that were choking him. When he saw Natasha he waved his arms despairingly and burst into convulsively painful sobs that distorted his soft round face.

"Pe... Petya... Go, go, she... is calling..." and weeping like a child and quickly shuffling on his feeble legs to a chair, he almost fell into it, covering his face with his hands.

Suddenly an electric shock seemed to run through Natasha's whole being. Terrible anguish struck her heart, she felt a dreadful ache as if something was being torn inside her and she were dying. But the pain was immediately followed by a feeling of release from the oppressive constraint that had prevented her taking part in life.

The sight of her father, the terribly wild cries of her mother that she heard through the door, made her immediately forget herself and her own grief.

She ran to her father, but he feebly waved his arm, pointing to her mother's door. Princess Mary, pale and with quivering chin, came out from that room and taking Natasha by the arm said something to her. Natasha neither saw nor heard her. She went in with rapid steps, pausing at the door for an instant as if struggling with herself, and then ran to her mother.

The countess was lying in an armchair in a strange and awkward position,
stretching out and beating her head against the wall.
Sonya and the maids were holding her arms.

"Natasha! Natasha!..." cried the countess. "It's not true... it's not true... He's lying... Natasha!" she shrieked, pushing those around her away. "Go away, all of you; it's not true! Killed!... ha, ha, ha!... It's not true!"

Natasha put one knee on the armchair, stooped over her mother, embraced her, and with unexpected strength raised her, turned her face toward herself, and clung to her.

"Mummy!... darling!... I am here, my dearest Mummy," she kept on whispering, not pausing an instant.

She did not let go of her mother but struggled tenderly with her, demanded a pillow and hot water, and unfastened and tore open her mother's dress.

"My dearest darling... Mummy, my precious!..." she whispered incessantly, kissing her head, her hands, her face, and feeling her own irrepressible and streaming tears tickling her nose and cheeks.

The countess pressed her daughter's hand, closed
her eyes, and
became quiet for a moment. Suddenly she sat up with unaccustomed swiftness, glanced vacantly around her, and seeing Natasha began to press her daughter's head with all her strength. Then she turned toward her daughter's face which was wincing with pain and gazed long at it.

"Natasha, you love me?" she said in a soft trustful whisper.
"Natasha, you would not deceive me? You'll tell me the whole truth?"

Natasha looked at her with eyes full of tears and in her look

there was nothing but love and an entreaty for forgiveness.

"My darling Mummy!" she repeated, straining all the power of her love to find some way of taking on herself the excess of grief that crushed her mother.

And again in a futile struggle with reality her mother, refusing to believe that she could live when her beloved boy was killed in the bloom of life, escaped from reality into a world of delirium.

Natasha did not remember how that day passed nor that night, nor the next day and night. She did not
sleep and did not leave her mother.
Her persevering and patient love seemed completely to surround the countess every moment, not explaining or consoling, but recalling her to life.

During the third night the countess kept very quiet for a few minutes, and Natasha rested her head on the arm of her chair and closed her eyes, but opened them again on hearing the bedstead creak. The countess was sitting up in bed and speaking softly.

"How glad I am you have come. You are tired. Won't you have some tea?" Natasha went up to her. "You have improved in looks and grown more manly," continued the countess, taking her daughter's hand.

"Mamma! What are you saying..."

"Natasha, he is no more, no more!"

And embracing her daughter, the countess began to weep for the first time.

CHAPTER III

Princess Mary postponed her departure. Sonya and the count tried to replace Natasha but could not. They saw that she alone was able to restrain her mother from unreasoning despair. For three weeks Natasha
remained constantly at her mother's side, sleeping on a lounge chair in her room, making her eat and drink, and talking to her incessantly because the mere sound of her tender, caressing tones soothed her mother.

The mother's wounded spirit could not heal. Petya's death had torn from her half her life. When the news of Petya's death had come she had been a fresh and vigorous woman of fifty, but a month later she left her room a listless old woman taking no interest in life. But the same blow that almost killed the countess, this second blow, restored Natasha to life.

A spiritual wound produced by a rending of the spiritual body is like a physical wound and, strange as it may seem, just as a deep wound may heal and its edges join, physical and spiritual wounds alike can yet heal completely only as the result of a vital force from within.

Natasha's wound healed in that way. She thought her life was ended, but her love for her mother unexpectedly showed her that the essence of life--love--was still active within her. Love awoke and so did life.

Prince Andrew's last days had bound Princess Mary and Natasha together; this new sorrow brought them still closer to one another. Princess Mary put off her departure, and for three weeks looked after Natasha as if she had been a sick child. The last weeks passed in her mother's bedroom had strained Natasha's physical strength.

One afternoon noticing Natasha shivering with fever, Princess Mary took her to her own room and made her lie down on the bed. Natasha lay down, but when Princess Mary had drawn the blinds and was going away she called her back.

"I don't want to sleep, Mary, sit by me a little."

"You are tired--try to sleep."

"No, no. Why did you bring me away? She will be asking for me."

"She is much better. She spoke so well today," said Princess Mary.

Natasha lay on the bed and in the semidarkness of the room scanned Princess Mary's face.

"Is she like him?" thought Natasha. "Yes, like and yet not like. But she is quite original, strange, new, and unknown. And she loves me. What is in her heart? All that is good. But how? What is her mind like? What does she think about me? Yes, she is splendid!"

"Mary," she said timidly, drawing Princess Mary's hand to herself, "Mary, you mustn't think me wicked. No? Mary darling, how I love you! Let us be quite, quite friends."

And Natasha, embracing her, began kissing her face and hands, making Princess Mary feel shy but happy by this demonstration of her feelings.

From that day a tender and passionate friendship such as exists only between women was established between Princess Mary and Natasha. They were continually kissing and saying tender things to one another and spent most of their time together. When one went out the other became restless and hastened to rejoin her. Together they felt more in harmony with one another than either of them felt with herself when alone. A feeling stronger than friendship sprang up between them; an exclusive feeling
of life being possible only in each other's
presence.

Sometimes they were silent for hours; sometimes after they were already in bed they would begin talking and go on till morning. They spoke most of what was long past. Princess Mary spoke of her childhood, of her mother, her father, and her daydreams; and Natasha, who with a passive lack of understanding had formerly turned away from that life of devotion, submission, and the poetry of Christian self-sacrifice, now feeling herself bound to Princess Mary by affection, learned to love her past too and to understand a side of life previously incomprehensible to her. She did not think of applying submission and self-abnegation to her own life, for she was accustomed to seek other joys, but she understood and loved in another those previously incomprehensible virtues. For Princess Mary, listening to Natasha's tales of childhood and early youth, there also opened out a new and hitherto uncomprehended side of life: belief in life and
its enjoyment.

Just as before, they never mentioned him so as not to lower (as they thought) their exalted feelings by words; but this silence about him had the effect of making them gradually begin to forget him without being conscious of it.

Natasha had grown thin and pale and physically so weak that they all talked about her health, and this pleased her. But sometimes she was suddenly overcome by fear not only of death but of sickness, weakness, and loss of good looks, and involuntarily she examined her bare arm carefully, surprised at its thinness, and in the morning noticed her drawn and, as it seemed to her, piteous face in her glass. It seemed to her that things must be so, and yet it was dreadfully sad.

One day she went quickly upstairs and found herself out of breath. Unconsciously she immediately invented a reason for going down, and then, testing her strength, ran upstairs again, observing the result.

Another time when she called Dunyasha her voice trembled, so she called
again--though she could hear Dunyasha coming--called her in the deep chest tones in which she had been wont to sing, sing, and listened attentively to herself.

She did not know and would not have believed it, but beneath the layer of slime that covered her soul and seemed to her impenetrable, delicate young shoots of grass were already sprouting, which taking root would so cover with their living verdure the grief that weighed her down that it would soon no longer be seen or noticed. The wound had begun to heal from within.

At the end of January Princess Mary left for Moscow, and the count insisted on Natasha's going with her to consult the doctors.

CHAPTER IV

After the encounter at Vyazma, where Kutuzov had been unable to hold back his troops in their anxiety to overwhelm and cut off the enemy and so on, the farther movement of the fleeing French, and of the Russians who pursued them, continued as far as Krasnoe without a battle. The flight was so rapid that the Russian army
pursuing the
French could not keep up with them; cavalry and artillery horses broke down, and the information received of the movements of the French was never reliable.

The men in the Russian army were so worn out by this continuous marching at the rate of twenty-seven miles a day that they could not go any faster.

To realize the degree of exhaustion of the Russian army it is only necessary to grasp clearly the meaning of the fact that, while not losing more than five thousand killed and wounded after Tarutino and less than a hundred prisoners, the Russian army which left that place a hundred thousand strong reached Krasnoe with only fifty thousand.

The rapidity of the Russian pursuit was just as destructive to our army as the flight of the French was to theirs. The only difference was that the Russian army moved voluntarily, with no such threat of destruction as hung over the French, and that the sick Frenchmen were left behind in enemy hands while the sick Russians left behind were
among their own people. The chief cause of the wastage of Napoleon's army was the rapidity of its movement, and a convincing proof of this is the corresponding decrease of the Russian army.

Kutuzov as far as was in his power, instead of trying to check the movement of the French as was desired in Petersburg and by the Russian army generals, directed his whole activity here, as he had done at Tarutino and Vyazma, to hastening it on while easing the movement of our army.

But besides this, since the exhaustion and enormous diminution of the army caused by the rapidity of the advance had become evident, another reason for slackening the pace and delaying presented itself to Kutuzov. The aim of the Russian army was to pursue the French. The road the French would take was unknown, and so the closer our troops trod on their heels the greater distance they had to cover. Only by following at some distance could one cut across the zigzag path of the French. All the artful maneuvers suggested
by our generals
meant fresh movements of the army and a lengthening of its marches, whereas the only reasonable aim was to shorten those marches. To that end Kutuzov's activity was directed during the whole campaign from Moscow to Vilna--not casually or intermittently but so consistently that he never once deviated from it.

Kutuzov felt and knew--not by reasoning or science but with the whole of his Russian being--what every Russian soldier felt: that the French were beaten, that the enemy was flying and must be driven out; but at the same time he like the soldiers realized all the hardship of this march, the rapidity of which was unparalleled for such a time of the year.

But to the generals, especially the foreign ones in the Russian army, who wished to distinguish themselves, to astonish somebody, and for some reason to capture a king or a duke--it seemed that now-when any battle must be horrible and senseless--was the very time to fight and conquer somebody. Kutuzov merely shrugged
his shoulders when
one after another they presented projects of maneuvers to be made with those soldiers--ill-shod, insufficiently clad, and half starved--who within a month and without fighting a battle had dwindled to half

their number, and who at the best if the flight continued would have to go a greater distance than they had already traversed, before they reached the frontier.

This longing to distinguish themselves, to maneuver, to overthrow, and to cut off showed itself particularly whenever the Russians stumbled on the French army.

So it was at Krasnoe, where they expected to find one of the three French columns and stumbled instead on Napoleon himself with sixteen thousand men. Despite all Kutuzov's efforts to avoid that ruinous encounter and to preserve his troops, the massacre of the broken mob of French soldiers by worn-out Russians continued at Krasnoe for three days.

Toll wrote a disposition: "The first column will march to so and so," etc. And as usual nothing happened in accord with the disposition. Prince Eugene of Wurttemberg fired from a hill over the French crowds that were running past, and demanded reinforcements which did not arrive. The French, avoiding the Russians, dispersed and hid themselves in the forest by night, making their way round as best they could, and continued their flight.

Miloradovich, who said he did not want to know anything about the commissariat affairs of his detachment, and could never be found when he was wanted--that chevalier sans peur et sans reproche* as he styled himself--who was fond of parleys with the French, sent envoys demanding their surrender, wasted time, and did not do what he was ordered to do.

*Knight without fear and without reproach.

"I give you that column, lads," he said, riding up to the troops and pointing out the French to the cavalry.

And the cavalry, with spurs and sabers urging on horses that could scarcely move, trotted with much effort to the column presented to them--that is to say, to a crowd of Frenchmen stark with cold, frost-bitten, and starving--and the column that had been presented to them threw down its arms and surrendered as it had long been anxious to do.

At Krasnoe they took twenty-six thousand prisoners, several hundred cannon, and a stick called a "marshal's staff," and disputed

as to who had distinguished himself and were pleased with their achievement--though they much regretted not having taken Napoleon, or at least a marshal or a hero of some sort, and reproached one another and especially Kutuzov for having failed to do so.

These men, carried away by their passions, were but blind tools of the most melancholy law of necessity, but considered themselves heroes and imagined that they were accomplishing a most noble and honorable deed. They blamed Kutuzov and said that from the very beginning of the campaign he had prevented their vanquishing Napoleon, that he thought nothing but satisfying his passions and would not advance from the Linen
Factories because he was comfortable there, that at
Krasnoe he checked the advance because on learning that Napoleon was there he had quite lost his head, and that it was probable that he had an understanding with Napoleon and had been bribed by him, and so on, and so on.

Not only did his contemporaries, carried away by their passions, talk in this way, but posterity and history have acclaimed Napoleon as grand, while Kutuzov is described by foreigners as a crafty, dissolute, weak old courtier, and by Russians as something indefinite- a sort of puppet useful only because he had a Russian name.

CHAPTER V

In 1812 and 1813 Kutuzov was openly accused of blundering. The Emperor was dissatisfied with him. And in a history recently written by order of the Highest Authorities it is said that Kutuzov was a cunning court liar, frightened of the name of Napoleon, and that by his blunders at Krasnoe and the Berezina he deprived the Russian army of the glory of complete victory over the
French.*

*History of the year 1812. The character of Kutuzov and reflections on the unsatisfactory results of the battles at Krasnoe, by Bogdanovich.

Such is the fate not of great men (grands hommes) whom the Russian mind does not acknowledge, but of those rare and always solitary individuals who, discerning the will of Providence, submit their

personal will to it. The hatred and contempt of the crowd punish such men for discerning the higher laws.

For Russian historians, strange and terrible to say, Napoleon- that most insignificant tool of history who never anywhere, even in exile, showed human dignity--Napoleon is the object of adulation and enthusiasm; he is grand. But Kutuzov--the man who from the beginning to the end of his activity in 1812, never once swerving by word or deed from Borodino to Vilna, presented an example exceptional in history of self-sacrifice and a present consciousness of the future importance of what was happening--Kutuzov seems to them something indefinite
and pitiful, and when speaking of him and of the year 1812 they always seem a little ashamed.

And yet it is difficult to imagine an historical character whose activity was so unswervingly directed to a single aim; and it would be difficult to imagine any aim more worthy or more consonant with the will of the whole people. Still more difficult would it be to find an instance in history of the aim of an historical personage being so completely accomplished as that to which all Kutuzov's efforts were directed in 1812.

Kutuzov never talked of "forty centuries looking down from the Pyramids," of the sacrifices he offered for the fatherland, or of what he intended to accomplish or had accomplished; in general he said nothing about himself, adopted no prose, always appeared to be the simplest and most ordinary of men, and said the simplest and most ordinary things. He wrote letters to his daughters and to Madame de Stael, read novels, liked the society of pretty women, jested with generals,
officers, and soldiers, and never contradicted those who tried to prove anything to him. When Count Rostopchin at the Yauza bridge galloped up to Kutuzov with personal reproaches for having caused the destruction of Moscow, and said: "How was it you promised not to abandon Moscow without a battle?" Kutuzov replied: "And I shall not abandon Moscow without a battle," though Moscow was then already abandoned. When Arakcheev, coming to him from the Emperor, said that Ermolov ought to be appointed chief of the artillery, Kutuzov replied: "Yes, I was just saying so myself," though a moment before he had said quite the contrary. What did it matter to him--who then alone amid a senseless crowd understood the whole tremendous significance of what was happening--what did it matter to him whether Rostopchin attributed the calamities of Moscow to him or to himself? Still less could it matter to him who was appointed chief of the artillery.

Not merely in these cases but continually did that old

man--who by
experience of life had reached the conviction that thoughts and the words serving as their expression are not what move people--use quite meaningless words that happened to enter his head.

But that man, so heedless of his words, did not once during the whole time of his activity utter one word inconsistent with the single aim toward which he moved throughout the whole war. Obviously in spite of himself, in very diverse circumstances, he repeatedly expressed his real thoughts with the bitter conviction that he would not be understood. Beginning with the battle of Borodino, from which time his disagreement with those about him began, he alone said that the battle of Borodino was a victory, and repeated this both verbally and in his dispatches and reports up to the time of his death. He alone said that the loss of Moscow is not the loss of Russia. In reply to Lauriston's proposal of peace, he said: There can be no peace, for such is the people's will. He alone during the retreat
of the French
said that all our maneuvers are useless, everything is being accomplished of itself better than we could desire; that the enemy must be offered "a golden bridge"; that neither the Tarutino, the Vyazma, nor the Krasnoe battles were necessary; that we must keep some force to reach the frontier with, and that he would not sacrifice a single Russian for ten Frenchmen.

And this courtier, as he is described to us, who lies to Arakcheev to please the Emperor, he alone--incurring thereby the Emperor's displeasure--said in Vilna that to carry the war beyond the frontier is useless and harmful.

Nor do words alone prove that only he understood the meaning of the events. His actions--without the smallest deviation--were all directed to one and the same threefold end: (1) to brace all his strength for conflict with the French, (2) to defeat them, and (3) to drive them out of Russia, minimizing as far as possible the sufferings of our people and of our army.

This procrastinator
Kutuzov, whose motto was "Patience and Time,"
this enemy of decisive action, gave battle at Borodino, investing the preparations for it with unparalleled solemnity. This Kutuzov who before the battle of Austerlitz began said that it would be lost, he alone, in contradiction to everyone else, declared till his death that Borodino was a victory, despite the assurance of generals that the battle was lost and despite the fact that for an army to have to retire after winning a battle was unprecedented. He alone during the whole retreat insisted that battles, which were useless then, should not be fought, and that a new war should not be begun nor the

frontiers of Russia crossed.

It is easy now to understand the significance of these events--if only we abstain from attributing to the activity of the mass aims that existed only in the heads of a dozen individuals--for the events and results now lie before us.

But how did that old man, alone, in opposition to the general opinion, so truly
discern the importance of the people's view of the
events that in all his activity he was never once untrue to it?

The source of that extraordinary power of penetrating the meaning of the events then occuring lay in the national feeling which he possessed in full purity and strength.

Only the recognition of the fact that he possessed this feeling caused the people in so strange a manner, contrary to the Tsar's wish, to select him--an old man in disfavor--to be their representative in the national war. And only that feeling placed him on that highest human pedestal from which he, the commander in chief, devoted all his powers not to slaying and destroying men but to saving and showing pity on them.

That simple, modest, and therefore truly great, figure could not be cast in the false mold of a European hero--the supposed ruler of men--that history has invented.

To a lackey no man can be great, for a lackey has his own conception of greatness.

CHAPTER VI

The fifth of November
was the first day of what is called the battle
of Krasnoe. Toward evening--after much disputing and many mistakes made by generals who did not go to their proper places, and after adjutants had been sent about with counterorders--when it had become plain that the enemy was everywhere in flight and that there could and would be no battle, Kutuzov left Krasnoe and went to Dobroe whither his headquarters had that day been transferred.

The day was clear and frosty. Kutuzov rode to Dobroe on his plump

little white horse, followed by an enormous suite of discontented generals who whispered among themselves behind his back. All along the road groups of French prisoners captured that day (there were seven thousand of them) were crowding to warm themselves at campfires. Near Dobroe an immense crowd of tattered prisoners, buzzing with talk and wrapped and bandaged in anything they had been able to get hold of, were standing in the road beside a long row of unharnessed French guns. At the approach
of the commander in chief the buzz of
talk ceased and all eyes were fixed on Kutuzov who, wearing a white cap with a red band and a padded overcoat that bulged on his round shoulders, moved slowly along the road on his white horse. One of the generals was reporting to him where the guns and prisoners had been captured.

Kutuzov seemed preoccupied and did not listen to what the general was saying. He screwed up his eyes with a dissatisfied look as he gazed attentively and fixedly at these prisoners, who presented a specially wretched appearance. Most of them were disfigured by frost-bitten noses and cheeks, and nearly all had red, swollen and festering eyes.

One group of the French stood close to the road, and two of them, one of whom had his face covered with sores, were tearing a piece of raw flesh with their hands. There was something horrible and bestial in the fleeting glance they threw at the riders and in the malevolent expression with which, after a glance at Kutuzov, the soldier
with the sores immediately turned away and went on with what he was doing.

Kutuzov looked long and intently at these two soldiers. He puckered his face, screwed up his eyes, and pensively swayed his head. At another spot he noticed a Russian soldier laughingly patting a Frenchman on the shoulder, saying something to him in a friendly manner, and Kutuzov with the same expression on his face again swayed his head.

"What were you saying?" he asked the general, who continuing his report directed the commander in chief's attention to some standards captured from the French and standing in front of the Preobrazhensk regiment.

"Ah, the standards!" said Kutuzov, evidently detaching himself with difficulty from the thoughts that preoccupied him.

He looked about him absently. Thousands of eyes were looking at him from all sides awaiting a word from him.

He stopped in front of the Preobrazhensk regiment, sighed deeply, and closed his eyes. One of his suite beckoned to the soldiers carrying
the standards to advance and surround the commander in chief with them. Kutuzov was silent for a few seconds and then, submitting with evident reluctance to the duty imposed by his position, raised his head and began to speak. A throng of officers surrounded him. He looked attentively around at the circle of officers, recognizing several of them.

"I thank you all!" he said, addressing the soldiers and then again the officers. In the stillness around him his slowly uttered words were distinctly heard. "I thank you all for your hard and faithful service. The victory is complete and Russia will not forget you! Honor to you forever."

He paused and looked around.

"Lower its head, lower it!" he said to a soldier who had accidentally lowered the French eagle he was holding before the Preobrazhensk standards. "Lower, lower, that's it. Hurrah lads!" he added, addressing the men with a rapid movement of his chin.

"Hur-r-rah!" roared thousands of voices.

While the soldiers were shouting
Kutuzov leaned forward in his saddle and bowed his head, and his eye lit up with a mild and apparently ironic gleam.

"You see, brothers..." said he when the shouts had ceased... and all at once his voice and the expression of his face changed. It was no longer the commander in chief speaking but an ordinary old man who wanted to tell his comrades something very important.

There was a stir among the throng of officers and in the ranks of the soldiers, who moved that they might hear better what he was going to say.

"You see, brothers, I know it's hard for you, but it can't be helped! Bear up; it won't be for long now! We'll see our visitors off and then we'll rest. The Tsar won't forget your service. It is hard for you, but still you are at home while they--you see what they have come to," said he, pointing to the prisoners. "Worse off than our poorest beggars. While they were strong we didn't spare ourselves, but now we may even pity them. They are human beings too. Isn't it so, lads?"

He
looked around, and in the direct, respectful, wondering gaze
fixed upon him he read sympathy with what he had said. His face grew
brighter and brighter with an old man's mild smile, which drew the
corners of his lips and eyes into a cluster of wrinkles. He ceased
speaking and bowed his head as if in perplexity.

"But after all who asked them here? Serves them right, the bloody
bastards!" he cried, suddenly lifting his head.

And flourishing his whip he rode off at a gallop for the first
time during the whole campaign, and left the broken ranks of the
soldiers laughing joyfully and shouting "Hurrah!"

Kutuzov's words were hardly understood by the troops. No one could
have repeated the field marshal's address, begun solemnly and then
changing into an old man's simplehearted talk; but the hearty
sincerity of that speech, the feeling of majestic triumph combined
with pity for the foe and consciousness of the justice of our cause,
exactly expressed by that old man's good-natured expletives,
was not
merely understood but lay in the soul of every soldier and found
expression in their joyous and long-sustained shouts. Afterwards
when one of the generals addressed Kutuzov asking whether he wished
his caleche to be sent for, Kutuzov in answering unexpectedly gave a
sob, being evidently greatly moved.

CHAPTER VII

When the troops reached their night's halting place on the eighth of
November, the last day of the Krasnoe battles, it was already
growing dusk. All day it had been calm and frosty with occasional
lightly falling snow and toward evening it began to clear. Through the
falling snow a purple-black and starry sky showed itself and the frost
grew keener.

An infantry regiment which had left Tarutino three thousand strong
but now numbered only nine hundred was one of the first to arrive that
night at its halting place--a village on the highroad. The
quartermasters who met the regiment announced that all the huts were
full of sick and dead Frenchmen, cavalrymen,

and members of the staff.
There was only one hut available for the regimental commander.

The commander rode up to his hut. The regiment passed through the village and stacked its arms in front of the last huts.

Like some huge many-limbed animal, the regiment began to prepare its lair and its food. One part of it dispersed and waded knee-deep through the snow into a birch forest to the right of the village, and immediately the sound of axes and swords, the crashing of branches, and merry voices could be heard from there. Another section amid the regimental wagons and horses which were standing in a group was busy getting out caldrons and rye biscuit, and feeding the horses. A third section scattered through the village arranging quarters for the staff officers, carrying out the French corpses that were in the huts, and dragging away boards, dry wood, and thatch from the roofs, for the campfires, or wattle fences to serve for shelter.

Some fifteen men with merry shouts were shaking
down the high wattle
wall of a shed, the roof of which had already been removed.

"Now then, all together--shove!" cried the voices, and the huge surface of the wall, sprinkled with snow and creaking with frost, was seen swaying in the gloom of the night. The lower stakes cracked more and more and at last the wall fell, and with it the men who had been pushing it. Loud, coarse laughter and joyous shouts ensued.

"Now then, catch hold in twos! Hand up the lever! That's it... Where are you shoving to?"

"Now, all together! But wait a moment, boys... With a song!"

All stood silent, and a soft, pleasant velvety voice began to sing. At the end of the third verse as the last note died away, twenty voices roared out at once: "Oo-oo-oo-oo! That's it. All together! Heave away, boys!..." but despite their united efforts the wattle hardly moved, and in the silence that followed the heavy breathing of the men was audible.

"Here, you of the Sixth Company! Devils that you are! Lend a hand... will
you? You may want us one of these days."

Some twenty men of the Sixth Company who were on their way into the village joined the haulers, and the wattle wall, which was about thirty-five feet long and seven feet high, moved forward along the

village street, swaying, pressing upon and cutting the shoulders of the gasping men.

"Get along... Falling? What are you stopping for? There now..."

Merry senseless words of abuse flowed freely.

"What are you up to?" suddenly came the authoritative voice of a sergeant major who came upon the men who were hauling their burden. "There are gentry here; the general himself is in that hut, and you foul-mouthed devils, you brutes, I'll give it to you!" shouted he, hitting the first man who came in his way a swinging blow on the back. "Can't you make less noise?"

The men became silent. The soldier who had been struck groaned and wiped his face, which had been scratched till it bled by his falling against the wattle.

"There, how that devil hits out! He's made my face all bloody," said he in a frightened whisper when the sergeant major had passed on.

"Don't you like it?" said a laughing voice, and moderating their tones the men moved forward.

When they were out of the village they began talking again as loud as before, interlarding their talk with the same aimless expletives.

In the hut which the men had passed, the chief officers had gathered and were in animated talk over their tea about the events of the day and the maneuvers suggested for tomorrow. It was proposed to make a flank march to the left, cut off the Vice-King (Murat) and capture him.

By the time the soldiers had dragged the wattle fence to its place the campfires were blazing on all sides ready for cooking, the wood crackled, the snow was melting, and black shadows of soldiers flitted to and fro all over the occupied space where the snow had been trodden down.

Axes and choppers were plied all around. Everything was done without any orders being given. Stores of wood were brought for the night, shelters were rigged up for the officers, caldrons were being boiled, and muskets and accouterments put in order.

The wattle wall the men had brought was set up in a semicircle by the Eighth Company as a shelter from the north, propped up by musket

rests, and a campfire was built before it. They beat the tattoo, called the roll, had supper, and settled down round the fires for the night--some repairing their footgear, some smoking pipes, and some stripping themselves naked to steam the lice out of their shirts.

CHAPTER VIII

One would have thought that under the almost incredibly wretched conditions the Russian soldiers were in at that time--lacking warm boots and sheepskin coats, without a roof over their heads, in the snow with eighteen degrees of frost, and without even full rations (the commissariat did not always keep up with the troops)--they would have presented a very sad and depressing spectacle.

On the contrary, the army had never under the best material conditions presented a more cheerful and animated aspect. This was because all who began to grow depressed or who lost strength were sifted out of the army day by day. All the physically or morally weak had long since been left behind and only the flower of the army--physically and mentally--remained.

More men collected behind the wattle fence of the Eighth Company than anywhere else. Two sergeants major were sitting with them and their campfire blazed brighter than others. For leave to sit by their wattle they demanded contributions of fuel.

"Eh, Makeev! What has become of you, you son of a bitch? Are you lost or have the wolves eaten you? Fetch some more wood!" shouted a red-haired and red-faced man, screwing up his eyes and blinking because of the smoke but not moving back from the fire. "And you, Jackdaw, go and fetch some wood!" said he to another soldier.

This red-haired man was neither a sergeant nor a corporal, but being robust he ordered about those weaker than himself. The soldier they called "Jackdaw," a thin little fellow with a sharp nose, rose obediently and was about to go but at that instant there came into the light of the fire the slender, handsome figure of a young soldier carrying a load of wood.

"Bring it here--that's fine!"

They split up the wood, pressed it down on the fire, blew at it with their mouths, and fanned it with the skirts of their greatcoats, making the flames hiss and crackle. The men drew nearer and lit their pipes. The handsome young soldier who had brought the wood, setting his arms akimbo, began stamping his cold feet rapidly and deftly on the spot where he stood.

"Mother! The dew is cold but clear.... It's well that I'm a musketeer..." he sang, pretending to hiccough after each syllable.

"Look out, your soles will fly off!" shouted the red-haired man, noticing that the sole of the dancer's boot was hanging loose. "What a fellow you are for dancing!"

The dancer stopped, pulled off the loose piece of leather, and threw it on the fire.

"Right enough, friend," said he, and, having sat down, took out of his knapsack a scrap of blue French cloth, and wrapped it round his foot. "It's the steam that spoils them," he added, stretching out his feet toward the fire.

"They'll soon be issuing us new ones. They say that when we've finished hammering them, we're to receive double kits!"

"And that son of a bitch Petrov has lagged behind after all, it seems," said one sergeant major.

"I've had an eye on him this long while," said the other.

"Well, he's a poor sort of soldier..."

"But in the Third Company they say nine men were missing yesterday."

"Yes, it's all very well, but when a man's feet are frozen how can he walk?"

"Eh? Don't talk nonsense!" said a sergeant major.

"Do you want to be doing the same?" said an old soldier, turning reproachfully to the man who had spoken of frozen feet.

"Well, you know," said the sharp-nosed man they called Jackdaw in a squeaky and unsteady voice, raising himself at the other side of the fire, "a plump man gets thin, but for a thin one it's death. Take me, now! I've got no strength left," he added, with sudden

resolution turning to the sergeant major. "Tell them to send me to

hospital; I'm aching all over; anyway I shan't be able to keep up."

"That'll do, that'll do!" replied the sergeant major quietly.

The soldier said no more and the talk went on.

"What a lot of those Frenchies were taken today, and the fact is
that not one of them had what you might call real boots on," said a
soldier, starting a new theme. "They were no more than make-believes."

"The Cossacks have taken their boots. They were clearing the hut for
the colonel and carried them out. It was pitiful to see them, boys,"
put in the dancer. "As they turned them over one seemed still alive
and, would you believe it, he jabbered something in their lingo."

"But they're a clean folk, lads," the first man went on; "he was
white--as white as birchbark--and some of them
are such fine
fellows, you might think they were nobles."

"Well, what do you think? They make soldiers of all classes there."

"But they don't understand our talk at all," said the dancer with
a puzzled smile. "I asked him whose subject he was, and he jabbered in
his own way. A queer lot!"

"But it's strange, friends," continued the man who had wondered at
their whiteness, "the peasants at Mozhaysk were saying that when
they began burying the dead--where the battle was you know--well,
those dead had been lying there for nearly a month, and says the
peasant, 'they lie as white as paper, clean, and not as much smell
as a puff of powder smoke.'"

"Was it from the cold?" asked someone.

"You're a clever fellow! From the cold indeed! Why, it was hot. If
it had been from the cold, ours would not have rotted either. 'But,'
he says, 'go up to ours and they are all rotten and maggoty. So,' he
says, 'we tie our faces up with kerchiefs and turn our heads away as
we drag them off: we can hardly
do it. But theirs,' he says, 'are
white as paper and not so much smell as a whiff of gunpowder.'"

All were silent.

"It must be from their food," said the sergeant major. "They used to

gobble the same food as the gentry."

No one contradicted him.

"That peasant near Mozhaysk where the battle was said the men were all called up from ten villages around and they carted for twenty days and still didn't finish carting the dead away. And as for the wolves, he says..."

"That was a real battle," said an old soldier. "It's the only one worth remembering; but since that... it's only been tormenting folk."

"And do you know, Daddy, the day before yesterday we ran at them and, my word, they didn't let us get near before they just threw down their muskets and went on their knees. 'Pardon!' they say. That's only one case. They say Platov took 'Poleon himself twice. But he didn't know the right charm. He catches him and catches him--no good! He turns into a bird in his hands and flies away. And there's no way of killing him either."

"You're a first-class liar, Kiselev, when I come to look at you!"

"Liar, indeed! It's the real truth."

"If he fell into my hands, when I'd caught him I'd bury him in the ground with an aspen stake to fix him down. What a lot of men he's ruined!"

"Well, anyhow we're going to end it. He won't come here again," remarked the old soldier, yawning.

The conversation flagged, and the soldiers began settling down to sleep.

"Look at the stars. It's wonderful how they shine! You would think the women had spread out their linen," said one of the men, gazing with admiration at the Milky Way.

"That's a sign of a good harvest next year."

"We shall want some more wood."

"You warm your back and your belly gets frozen. That's queer."

"O Lord!"

"What are you pushing for? Is the fire only for you? Look how he's

sprawling!"

In the silence that ensued, the snoring of those who had fallen asleep could be heard. Others turned over and warmed themselves, now and
again exchanging a few words. From a campfire a hundred paces off came a sound of general, merry laughter.

"Hark at them roaring there in the Fifth Company!" said one of the soldiers, "and what a lot of them there are!"

One of the men got up and went over to the Fifth Company.

"They're having such fun," said he, coming back. "Two Frenchies have turned up. One's quite frozen and the other's an awful swaggerer. He's singing songs...."

"Oh, I'll go across and have a look...."

And several of the men went over to the Fifth Company.

CHAPTER IX

The fifth company was bivouacking at the very edge of the forest. A huge campfire was blazing brightly in the midst of the snow, lighting up the branches of trees heavy with hoarfrost.

About midnight they heard the sound of steps in the snow of the forest, and the crackling of dry branches.

"A bear, lads," said one of the men.

They all raised their heads to listen, and out of the forest into the bright firelight stepped two strangely
clad human figures clinging
to one another.

These were two Frenchmen who had been hiding in the forest. They came up to the fire, hoarsely uttering something in a language our soldiers did not understand. One was taller than the other; he wore an officer's hat and seemed quite exhausted. On approaching the fire he had been going to sit down, but fell. The other, a short sturdy soldier with a shawl tied round his head, was stronger. He raised

his companion and said something, pointing to his mouth. The soldiers surrounded the Frenchmen, spread a greatcoat on the ground for the sick man, and brought some buckwheat porridge and vodka for both of them.

The exhausted French officer was Ramballe and the man with his head wrapped in the shawl was Morel, his orderly.

When Morel had drunk some vodka and finished his bowl of porridge he suddenly became unnaturally merry and chattered incessantly to the soldiers, who could not understand him. Ramballe refused food and resting his head on his
elbow lay silent beside the campfire,
looking at the Russian soldiers with red and vacant eyes. Occasionally he emitted a long-drawn groan and then again became silent. Morel, pointing to his shoulders, tried to impress on the soldiers the fact that Ramballe was an officer and ought to be warmed. A Russian officer who had come up to the fire sent to ask his colonel whether he would not take a French officer into his hut to warm him, and when the messenger returned and said that the colonel wished the officer to be brought to him, Ramballe was told to go. He rose and tried to walk, but staggered and would have fallen had not a soldier standing by held him up.

"You won't do it again, eh?" said one of the soldiers, winking and turning mockingly to Ramballe.

"Oh, you fool! Why talk rubbish, lout that you are--a real peasant!" came rebukes from all sides addressed to the jesting soldier.

They surrounded Ramballe, lifted him on the crossed arms of two soldiers, and carried him to the hut.
Ramballe put his arms around
their necks while they carried him and began wailing plaintively:

"Oh, you fine fellows, my kind, kind friends! These are men! Oh, my brave, kind friends," and he leaned his head against the shoulder of one of the men like a child.

Meanwhile Morel was sitting in the best place by the fire, surrounded by the soldiers.

Morel, a short sturdy Frenchman with inflamed and streaming eyes, was wearing a woman's cloak and had a shawl tied woman fashion round his head over his cap. He was evidently tipsy, and was singing a French song in a hoarse broken voice, with an arm thrown round the nearest soldier. The soldiers simply held their sides as they watched him.

"Now then, now then, teach us how it goes! I'll soon pick it up. How is it?" said the man--a singer and a wag--whom Morel was embracing.

"Vive Henri Quatre! Vive ce roi valiant!" sang Morel, winking. "Ce diable a quatre..."*

*"Long live Henry the Fourth, that valiant king! That rowdy devil."

"Vivarika!
Vif-seruvaru! Sedyablyaka!" repeated the soldier, flourishing his arm and really catching the tune.

"Bravo! Ha, ha, ha!" rose their rough, joyous laughter from all sides.

Morel, wrinkling up his face, laughed too.

"Well, go on, go on!"

"Qui eut le triple talent,
De boire, de battre,
Et d'etre un vert galant."*

*Who had a triple talent

For drinking, for fighting,

And for being a gallant old boy...

"It goes smoothly, too. Well, now, Zaletaev!"

"Ke..." Zaletaev, brought out with effort: "ke-e-e-e," he drawled, laboriously pursing his lips, "le-trip-ta-la-de-bu-de-ba, e de-tra-va-ga-la" he sang.

"Fine! Just like the Frenchie! Oh, ho ho! Do you want some more to eat?"

"Give him some porridge: it takes a long time to get filled up after starving."

They gave him some more porridge and Morel with a laugh set to work on his third bowl. All the young soldiers smiled gaily as they

watched him. The older men, who thought it undignified to amuse themselves with such
nonsense, continued to lie at the opposite side
of the fire, but one would occasionally raise himself on an elbow and glance at Morel with a smile.

"They are men too," said one of them as he wrapped himself up in his coat. "Even wormwood grows on its own root."

"O Lord, O Lord! How starry it is! Tremendous! That means a hard frost...."

They all grew silent. The stars, as if knowing that no one was looking at them, began to disport themselves in the dark sky: now flaring up, now vanishing, now trembling, they were busy whispering something gladsome and mysterious to one another.

CHAPTER X

The French army melted away at the uniform rate of a mathematical progression; and that crossing of the Berezina about which so much has been written was only one intermediate stage in its destruction, and not at all the decisive episode of the campaign. If so much has been and still is written about the Berezina, on the French side this is only because at the broken bridge across that river
the calamities
their army had been previously enduring were suddenly concentrated at one moment into a tragic spectacle that remained in every memory, and on the Russian side merely because in Petersburg--far from the seat of war--a plan (again one of Pfuel's) had been devised to catch Napoleon in a strategic trap at the Berezina River. Everyone assured himself that all would happen according to plan, and therefore insisted that it was just the crossing of the Berezina that destroyed the French army. In reality the results of the crossing were much less disastrous to the French--in guns and men lost--than Krasnoe had been, as the figures show.

The sole importance of the crossing of the Berezina lies in the fact that it plainly and indubitably proved the fallacy of all the plans for cutting off the enemy's retreat and the soundness of the only possible line of action--the one Kutuzov and the general mass of the army demanded--namely, simply to follow the enemy up. The French crowd fled

at a continually increasing speed and all its energy was directed to reaching its goal. It fled like a wounded animal and it was impossible to block its path. This was shown not so much by the arrangements it made for crossing as by what took place at the bridges. When the bridges broke down, unarmed soldiers, people from Moscow and women with children who were with the French transport, all--carried on by vis inertiae--pressed forward into boats and into the ice-covered water and did not, surrender.

That impulse was reasonable. The condition of fugitives and of pursuers was equally bad. As long as they remained with their own people each might hope for help from his fellows and the definite place he held among them. But those who surrendered, while remaining in the same pitiful plight, would be on a lower level to claim a share in the necessities of life. The French did not need to be informed of the fact that half the prisoners--with whom the Russians did not know what to do--perished
of cold and hunger despite their captors'
desire to save them; they felt that it could not be otherwise. The most compassionate Russian commanders, those favorable to the French--and even the Frenchmen in the Russian service--could do nothing for the prisoners. The French perished from the conditions to which the Russian army was itself exposed. It was impossible to take bread and clothes from our hungry and indispensable soldiers to give to the French who, though not harmful, or hated, or guilty, were simply unnecessary. Some Russians even did that, but they were exceptions.

Certain destruction lay behind the French but in front there was hope. Their ships had been burned, there was no salvation save in collective flight, and on that the whole strength of the French was concentrated.

The farther they fled the more wretched became the plight of the remnant, especially after the Berezina, on which (in consequence of the Petersburg plan) special hopes had been placed by the Russians, and
the keener grew the passions of the Russian commanders, blamed one another and Kutuzov most of all. Anticipation that the failure of the Petersburg Berezina plan would be attributed to Kutuzov led to dissatisfaction, contempt, and ridicule, more and more strongly expressed. The ridicule and contempt were of course expressed in a respectful form, making it impossible for him to ask wherein he was to blame. They did not talk seriously to him; when reporting to him or asking for his sanction they appeared to be fulfilling a regrettable formality, but they winked behind his back and tried to mislead him at every turn.

Because they could not understand him all these people assumed that it was useless to talk to the old man; that he would never grasp the profundity of their plans, that he would answer with his phrases (which they thought were mere phrases) about a "golden bridge," about the impossibility of crossing the frontier with a crowd of tatterdemalions, and so forth. They had heard all that before.

And all he said--that it was necessary to await provisions, or that the men had no boots--was so simple, while what they proposed was so complicated and clever, that it was evident that he was old and stupid and that they, though not in power, were commanders of genius.

After the junction with the army of the brilliant admiral and Petersburg hero Wittgenstein, this mood and the gossip of the staff reached their maximum. Kutuzov saw this and merely sighed and shrugged his shoulders. Only once, after the affair of the Berezina, did he get angry and write to Bennigsen (who reported separately to the Emperor) the following letter:

"On account of your spells of ill health, will your excellency please be so good as to set off for Kaluga on receipt of this, and there await further commands and appointments from His Imperial Majesty."

But after Bennigsen's departure, the Grand Duke Tsarevich Constantine Pavlovich joined the army. He had taken part in the beginning of the campaign but had subsequently been removed from the army by Kutuzov. Now having come to the army, he informed Kutuzov of the Emperor's displeasure at the poor success of our forces and the slowness of their advance. The Emperor intended to join the army personally in a few days' time.

The old man, experienced in court as well as in military affairs- this same Kutuzov who in August had been chosen commander in chief against the sovereign's wishes and who had removed the Grand Duke and heir--apparent from the army--who on his own authority and contrary to the Emperor's will had decided on the abandonment of Moscow, now realized at once that his day was over, that his part was played, and that the power he was supposed to hold was no longer his. And he understood this not merely from the attitude of the court. He saw on the one hand that the military business in which he had played his part was ended and felt that his mission was accomplished; and at the same time he began to be conscious of the physical weariness of his aged body and of the necessity of physical rest.

On the twenty-ninth of November Kutuzov entered Vilna--his "dear Vilna" as he called it. Twice during his career Kutuzov had been governor of Vilna. In that wealthy town, which had not been injured, he found old friends and associations, besides the comforts of life of which he had so long been deprived. And he suddenly turned from the cares of army and state and, as far as the passions that seethed around him allowed, immersed himself in the quiet life to which he had formerly been accustomed, as if all that was taking place and all that had still to be done in the realm of history did not concern him at all.

Chichagov, one of the most zealous "cutters-off" and "breakers-up," who had first wanted to effect a diversion in Greece and then in Warsaw but never wished to go where he was sent: Chichagov, noted for the boldness with which he spoke to the Emperor, and who considered Kutuzov to be under
an obligation to him
because when he was sent to make peace with Turkey in 1811 independently of Kutuzov, and found that peace had already been concluded, he admitted to the Emperor that the merit of securing that peace was really Kutuzov's; this Chichagov was the first to meet Kutuzov at the castle where the latter was to stay. In undress naval uniform, with a dirk, and holding his cap under his arm, he handed Kutuzov a garrison report and the keys of the town. The contemptuously respectful attitude of the younger men to the old man in his dotage was expressed in the highest degree by the behavior of Chichagov, who knew of the accusations that were being directed against Kutuzov.

When speaking to Chichagov, Kutuzov incidentally mentioned that the vehicles packed with china that had been captured from him at Borisov had been recovered and would be restored to him.

"You mean to imply that I have nothing to eat out of.... On the contrary, I can supply you with everything even if you want
to give
dinner parties," warmly replied Chichagov, who tried by every word he spoke to prove his own rectitude and therefore imagined Kutuzov to be animated by the same desire.

Kutuzov, shrugging his shoulders, replied with his subtle penetrating smile: "I meant merely to say what I said."

Contrary to the Emperor's wish Kutuzov detained the greater part of the army at Vilna. Those about him said that he became extraordinarily slack and physically feeble during his stay in that town. He attended to army affairs reluctantly, left everything to his generals, and while awaiting the Emperor's arrival led a

dissipated life.

Having left Petersburg on the seventh of December with his suite-Count Tolstoy, Prince Volkonski, Arakcheev, and others--the Emperor reached Vilna on the eleventh, and in his traveling sleigh drove straight to the castle. In spite of the severe frost some hundred generals and staff officers in full parade uniform stood in front of the castle, as well as a guard of honor of the Semenov regiment.

A courier who galloped to the castle in advance, in a troyka with three foam-flecked horses, shouted "Coming!" and Konovnitsyn rushed into the vestibule to inform Kutuzov, who was waiting in the hall porter's little lodge.

A minute later the old man's large stout figure in full-dress uniform, his chest covered with orders and a scarf drawn round his stomach, waddled out into the porch. He put on his hat with its peaks to the sides and, holding his gloves in his hand and walking with an effort sideways down the steps to the level of the street, took in his hand the report he had prepared for the Emperor.

There was running to and fro and whispering; another troyka furiously up, and then all eyes were turned on an approaching sleigh in which the figures of the Emperor and Volkonski could already be descried.

From the habit of fifty years all this had a physically agitating effect on the old general. He carefully and hastily felt himself all over, readjusted his hat, and pulling himself together drew himself up and, at the very moment when the Emperor, having alighted from the sleigh, lifted his eyes to him, handed him the report and began speaking in his smooth, ingratiating voice.

The Emperor with a rapid glance scanned Kutuzov from head to foot, frowned for an instant, but immediately mastering himself went up to the old man, extended his arms and embraced him. And this embrace too, owing to a long-standing impression related to his innermost feelings, had its usual effect on Kutuzov and he gave a sob.

The Emperor greeted the officers and the Semenov guard, and again pressing the old man's hand went with him into the castle.

When alone with the field marshal the Emperor expressed his dissatisfaction at the slowness of the pursuit and at the mistakes made at Krasnoe and the Berezina, and informed him of his intentions for a future campaign abroad. Kutuzov made no rejoinder or remark. The

same submissive, expressionless look with which
he had listened to the
Emperor's commands on the field of Austerlitz seven years before
settled on his face now.

When Kutuzov came out of the study and with lowered head was
crossing the ballroom with his heavy waddling gait, he was arrested by
someone's voice saying:

"Your Serene Highness!"

Kutuzov raised his head and looked for a long while into the eyes of
Count Tolstoy, who stood before him holding a silver salver on which
lay a small object. Kutuzov seemed not to understand what was expected
of him.

Suddenly he seemed to remember; a scarcely perceptible smile flashed
across his puffy face, and bowing low and respectfully he took the
object that lay on the salver. It was the Order of St. George of the
First Class.

CHAPTER XI

Next day the field marshal gave a dinner and ball which the
Emperor honored by his presence. Kutuzov had received the Order of St.
George of the First Class and the Emperor showed him the highest
honors, but everyone knew of the imperial dissatisfaction
with him.
The proprieties were observed and the Emperor was the first to set
that example, but everybody understood that the old man was
blameworthy and good-for-nothing. When Kutuzov, conforming to a custom
of Catherine's day, ordered the standards that had been captured to be
lowered at the Emperor's feet on his entering the ballroom, the
Emperor made a wry face and muttered something in which some people
caught the words, "the old comedian."

The Emperor's displeasure with Kutuzov was specially increased at
Vilna by the fact that Kutuzov evidently could not or would not
understand the importance of the coming campaign.

When on the following morning the Emperor said to the officers
assembled about him: "You have not only saved Russia, you have saved
Europe!" they all understood that the war was not ended.

Kutuzov alone would not see this and openly expressed his opinion that no fresh war could improve the position or add to the glory of Russia, but could only spoil and lower the glorious position that Russia had gained. He tried to prove to the Emperor the impossibility of levying fresh troops, spoke of the hardships already endured by the people, of the possibility of failure and so forth.

This being the field marshal's frame of mind he was naturally regarded as merely a hindrance and obstacle to the impending war.

To avoid unpleasant encounters with the old man, the natural method was to do what had been done with him at Austerlitz and with Barclay at the beginning of the Russian campaign--to transfer the authority to the Emperor himself, thus cutting the ground from under the commander in chief's feet without upsetting the old man by informing him of the change.

With this object his staff was gradually reconstructed and its real strength removed and transferred to the Emperor. Toll, Konovnitsyn, and Ermolov received fresh appointments. Everyone spoke loudly of the field marshal's great weakness and failing health.

His health had to be bad for his place to be taken away and given to another. And in fact his health was poor.

So naturally, simply, and gradually--just as he had come from Turkey to the Treasury in Petersburg to recruit the militia, and then to the army when he was needed there--now when his part was played out, Kutuzov's place was taken by a new and necessary performer.

The war 1812, besides its national significance dear to every Russian heart, was now to assume another, a European, significance.

The movement of peoples from west to east was to be succeeded by a movement of peoples from east to west, and for this fresh war another leader was necessary, having qualities and views differing from Kutuzov's and animated by different motives.

Alexander I was as necessary for the movement of the peoples from east to west and for the refixing of national frontiers as Kutuzov had been for the salvation and glory of Russia.

Kutuzov did not understand what Europe, the balance of power, or Napoleon meant. He could not understand

it. For the representative
of the Russian people, after the enemy had been destroyed and Russia had been liberated and raised to the summit of her glory, there was nothing left to do as a Russian. Nothing remained for the representative of the national war but to die, and Kutuzov died.

CHAPTER XII

As generally happens, Pierre did not feel the full effects of the physical privation and strain he had suffered as prisoner until after they were over. After his liberation he reached Orel, and on the third day there, when preparing to go to Kiev, he fell ill and was laid up for three months. He had what the doctors termed "bilious fever." But despite the fact that the doctors treated him, bled him, and gave him medicines to drink, he recovered.

Scarcely any impression was left on Pierre's mind by all that happened to him from the time of his rescue till his illness. He remembered only the dull gray weather now rainy and now snowy, internal physical distress, and pains in his
feet and side. He
remembered a general impression of the misfortunes and sufferings of people and of being worried by the curiosity of officers and generals who questioned him, he also remembered his difficulty in procuring a conveyance and horses, and above all he remembered his incapacity to think and feel all that time. On the day of his rescue he had seen the body of Petya Rostov. That same day he had learned that Prince Andrew, after surviving the battle of Borodino for more than a month had recently died in the Rostovs' house at Yaroslavl, and Denisov who told him this news also mentioned Helene's death, supposing that Pierre had heard of it long before. All this at the time seemed merely strange to Pierre: he felt he could not grasp its significance. Just then he was only anxious to get away as quickly as possible from places where people were killing one another, to some peaceful refuge where he could recover himself, rest, and think over all the strange new facts he had learned;
but on reaching Orel he
immediately fell ill. When he came to himself after his illness he saw in attendance on him two of his servants, Terenty and Vaska, who had come from Moscow; and also his cousin the eldest princess, who had been living on his estate at Elets and hearing of his rescue and illness had come to look after him.

It was only gradually during his convalescence that Pierre lost the impressions he had become accustomed to during the last few months and got used to the idea that no one would oblige him to go anywhere tomorrow, that no one would deprive him of his warm bed, and that he would be sure to get his dinner, tea, and supper. But for a long time in his dreams he still saw himself in the conditions of captivity. In the same way little by little he came to understand the news he had been told after his rescue, about the death of Prince Andrew, the death of his wife, and the destruction of the French.

A joyous feeling of freedom--that complete inalienable freedom natural
to man which he had first experienced at the first halt outside Moscow--filled Pierre's soul during his convalescence. He was surprised to find that this inner freedom, which was independent of external conditions, now had as it were an additional setting of external liberty. He was alone in a strange town, without acquaintances. No one demanded anything of him or sent him anywhere. He had all he wanted: the thought of his wife which had been a continual torment to him was no longer there, since she was no more.

"Oh, how good! How splendid!" said he to himself when a cleanly laid table was moved up to him with savory beef tea, or when he lay down for the night on a soft clean bed, or when he remembered that the French had gone and that his wife was no more. "Oh, how good, how splendid!"

And by old habit he asked himself the question: "Well, and what then? What am I going to do?" And he immediately gave himself the answer: "Well, I shall live. Ah, how splendid!"

The very question
that had formerly tormented him, the thing he had continually sought to find--the aim of life--no longer existed for him now. That search for the aim of life had not merely disappeared temporarily--he felt that it no longer existed for him and could not present itself again. And this very absence of an aim gave him the complete, joyous sense of freedom which constituted his happiness at this time.

He could not see an aim, for he now had faith--not faith in any kind of rule, or words, or ideas, but faith in an ever-living, ever-manifest God. Formerly he had sought Him in aims he set himself. That search for an aim had been simply a search for God, and suddenly in his captivity he had learned not by words or reasoning but by direct feeling what his nurse had told him long ago: that God is here and everywhere. In his captivity he had learned that in

Karataev God was greater, more infinite and unfathomable than in the Architect of the Universe recognized by the Freemasons. He felt like a man who after straining his eyes to see into the far distance finds what he sought at his very feet. All his life he had looked over the heads of the men around him, when he should have merely looked in front of him without straining his eyes.

In the past he had never been able to find that great inscrutable infinite something. He had only felt that it must exist somewhere and had looked for it. In everything near and comprehensible he had only what was limited, petty, commonplace, and senseless. He had equipped himself with a mental telescope and looked into remote space, where petty worldliness hiding itself in misty distance had seemed to him great and infinite merely because it was not clearly seen. And such had European life, politics, Freemasonry, philosophy, and philanthropy seemed to him. But even then, at moments of weakness as he had accounted them, his mind had penetrated to those distances and he had there seen the same pettiness, worldliness, and senselessness. Now, however, he had learned to see the great, eternal, and infinite in everything, and therefore--to see it and enjoy its contemplation--he naturally threw away the telescope through which he had till now gazed over men's heads, and gladly regarded the ever-changing, eternally great, unfathomable, and infinite life around him. And the closer he looked the more tranquil and happy he became. That dreadful question, "What for?" which had formerly destroyed all his mental edifices, no longer existed for him. To that question, "What for?" a simple answer was now always ready in his soul: "Because there is a God, that God without whose will not one hair falls from a man's head."

CHAPTER XIII

In external ways Pierre had hardly changed at all. In appearance he was just what he used to be. As before he was absent-minded and seemed occupied not with what was before his eyes but with something special of his own. The difference between his former and present self was that formerly when he did not grasp what lay before him or was said to him, he had puckered his forehead painfully as if vainly seeking to distinguish something at a distance. At present he still forgot what was said to him and still did not see what was before

his eyes, but he now looked with a scarcely perceptible and seemingly ironic smile at what was before him and listened to what was said, though evidently seeing and hearing something quite different. Formerly he had appeared to be a kindhearted but unhappy man, and so people had been inclined to avoid him. Now a smile at the joy of life always played round his lips, and sympathy for others, shone in his eyes with a questioning look as to whether they were as contented as he was, and people felt pleased by his presence.

Previously he had talked a great deal, grew excited when he talked, and seldom listened; now he was seldom carried away in conversation and knew how to listen so that people readily told him their most intimate secrets.

The princess, who had never liked Pierre and had been particularly hostile to him since she had felt herself under obligations to him after the old count's death, now after staying a short time in Orel- where she had come intending to show Pierre that in spite of his ingratitude she considered it her duty to nurse him--felt to her surprise and vexation that she had become fond of him. Pierre did not in any way seek her approval, he merely studied her with interest. Formerly she had felt that he regarded her with indifference and irony, and so had shrunk into herself as she did with others and had shown him only the combative side of her nature; but now he seemed to be trying to understand the most intimate places of her heart, and, mistrustfully at first but afterwards gratefully, she let him see the hidden, kindly sides of her character.

The most cunning man could not have crept into her confidence more successfully, evoking memories of the best times of her youth and showing sympathy with them. Yet Pierre's cunning consisted simply in finding pleasure in drawing out the human qualities of the embittered, hard, and (in her own way) proud princess.

"Yes, he is a very, very kind man when he is not under the influence of bad people but of people such as myself," thought she.

His servants too--Terenty and Vaska--in their own way noticed the change that had taken place in Pierre. They considered that he had become much "simpler." Terenty, when he had helped him undress and wished him good night, often lingered with his master's boots in his hands and clothes over his arm, to see whether he would not start a talk. And Pierre, noticing that Terenty wanted a chat, generally kept him there.

"Well, tell me... now, how did you get food?" he would ask.

And Terenty would begin talking of the destruction of Moscow, and of the old count, and would stand for a long time holding the clothes and talking, or sometimes listening to Pierre's stories, and then would go out into the hall with a pleasant
sense of intimacy with his master
and affection for him.

The doctor who attended Pierre and visited him every day, though he considered it his duty as a doctor to pose as a man whose every moment was of value to suffering humanity, would sit for hours with Pierre telling him his favorite anecdotes and his observations on the characters of his patients in general, and especially of the ladies.

"It's a pleasure to talk to a man like that; he is not like our provincials," he would say.

There were several prisoners from the French army in Orel, and the doctor brought one of them, a young Italian, to see Pierre.

This officer began visiting Pierre, and the princess used to make fun of the tenderness the Italian expressed for him.

The Italian seemed happy only when he could come to see Pierre, talk with him, tell him about his past, his life at home, and his love, and pour out to him his indignation against the French and especially against Napoleon.

"If all Russians are in the
least like you, it is sacrilege to fight
such a nation," he said to Pierre. "You, who have suffered so from the French, do not even feel animosity toward them."

Pierre had evoked the passionate affection of the Italian merely by evoking the best side of his nature and taking a pleasure in so doing.

During the last days of Pierre's stay in Orel his old Masonic acquaintance Count Willarski, who had introduced him to the lodge in 1807, came to see him. Willarski was married to a Russian heiress who had a large estate in Orel province, and he occupied a temporary post in the commissariat department in that town.

Hearing that Bezukhov was in Orel, Willarski, though they had never been intimate, came to him with the professions of friendship and intimacy that people who meet in a desert generally express for one another. Willarski felt dull in Orel and was pleased to meet a man

of his own circle and, as he supposed, of similar interests.

But to his surprise Willarski soon noticed that Pierre had lagged much behind the times, and had sunk, as he expressed it to himself, into apathy and egotism.

"You are letting yourself go, my dear fellow," he said.

But for all that Willarski found it pleasanter now than it had been formerly to be with Pierre, and came to see him every day. To Pierre as he looked at and listened to Willarski, it seemed strange to think that he had been like that himself but a short time before.

Willarski was a married man with a family, busy with his family affairs, his wife's affairs, and his official duties. He regarded all these occupations as hindrances to life, and considered that they were all contemptible because their aim was the welfare of himself and his family. Military, administrative, political, and Masonic interests continually absorbed his attention. And Pierre, without trying to change the other's views and without condemning him, but with the quiet, joyful, and amused smile now habitual to him, was interested in this strange though very familiar phenomenon.

There was a new feature in Pierre's relations with Willarski, with the princess, with the doctor, and with all the people he now met, which gained for him the general good will. This was his acknowledgment of the impossibility of changing a man's convictions by words, and his recognition of the possibility of everyone thinking, feeling, and seeing things each from his own point of view. This legitimate peculiarity of each individual which used to excite and irritate Pierre now became a basis of the sympathy he felt for, and the interest he took in, other people. The difference, and sometimes complete contradiction, between men's opinions and their lives, and between one man and another, pleased him and drew from him an amused and gentle smile.

In practical matters Pierre unexpectedly felt within himself a center of gravity he had previously lacked. Formerly all pecuniary questions, especially requests for money to which, as an extremely wealthy man, he was very exposed, produced in him a state of hopeless agitation and perplexity. "To give or not to give?" he had asked himself. "I have it and he needs it. But someone else needs it still more. Who needs it most? And perhaps they are both impostors?" In the old days he had been unable to find a way out of all these surmises and had given to all who asked as long as he had anything

to give. Formerly he had been in a similar state of perplexity with regard to every question concerning his property, when one person advised one thing and another something else.

Now to his surprise he found that he no longer felt either doubt or perplexity about these questions. There was now within him a judge who by some rule unknown to him decided what should or should not be done.

He was as indifferent as heretofore to money matters, but now he felt certain of what ought and what ought not to be done. The first time he had recourse to his new judge was when a French prisoner, a colonel, came to him and, after talking a great deal about his exploits, concluded by making what amounted to a demand that Pierre should give him four thousand francs to send to his wife and children. Pierre refused without the least difficulty or effort, and was afterwards surprised how simple and easy had been what used to appear so insurmountably difficult. At the same time that he refused the colonel's demand he made up his mind that he must have recourse to artifice when leaving Orel, to induce the Italian officer to accept some money of which he was evidently in need. A further proof to Pierre of his own more settled outlook on practical matters was furnished by his decision with regard to his wife's debts and to the rebuilding of his houses in and near Moscow.

His head steward came to him at Orel and Pierre reckoned up with him his diminished income. The burning of Moscow had cost him, according to the head steward's calculation, about two million rubles.

To console Pierre for these losses the head steward gave him an estimate showing that despite these losses his income would not be diminished but would even be increased if he refused to pay his wife's debts which he was under no obligation to meet, and did not rebuild his Moscow house and the country house on his Moscow estate, which had cost him eighty thousand rubles a year and brought in nothing.

"Yes, of course that's true," said Pierre with a cheerful smile. "I don't need all that at all. By being ruined I have become much richer."

But in January Savelich came from Moscow and gave him an account of the state of things there, and spoke of the estimate an architect had made of the cost of rebuilding the town and country houses, speaking of this as of a settled matter. About the same time he received letters from Prince Vasili and other Petersburg acquaintances speaking of his wife's debts. And Pierre decided that the steward's

proposals which had so pleased him were wrong and that he must go to Petersburg and settle his wife's
affairs and must rebuild in Moscow.
Why this was necessary he did not know, but he knew for certain that it was necessary. His income would be reduced by three fourths, but he felt it must be done.

Willarski was going to Moscow and they agreed to travel together.

During the whole time of his convalescence in Orel Pierre had experienced a feeling of joy, freedom, and life; but when during his journey he found himself in the open world and saw hundreds of new faces, that feeling was intensified. Throughout his journey he felt like a schoolboy on holiday. Everyone--the stagecoach driver, the post-house overseers, the peasants on the roads and in the villages-had a new significance for him. The presence and remarks of Willarski who continually deplored the ignorance and poverty of Russia and its backwardness compared with Europe only heightened Pierre's pleasure. Where Willarski saw deadness Pierre saw an extraordinary strength and vitality--the strength which in that vast space amid
the
snows maintained the life of this original, peculiar, and unique people. He did not contradict Willarski and even seemed to agree with him--an apparent agreement being the simplest way to avoid discussions that could lead to nothing--and he smiled joyfully as he listened to him.

CHAPTER XIV

It would be difficult to explain why and whither ants whose heap has been destroyed are hurrying: some from the heap dragging bits of rubbish, larvae, and corpses, others back to the heap, or why they jostle, overtake one another, and fight, and it would be equally difficult to explain what caused the Russians after the departure of the French to throng to the place that had formerly been Moscow. But when we watch the ants round their ruined heap, the tenacity, energy, and immense number of the delving insects prove that despite the destruction of the heap, something indestructible, which though intangible is the real strength of the colony, still exists; and similarly, though in Moscow in
the month of October there was no
government no churches, shrines, riches, or houses--it was still the Moscow it had been in August. All was destroyed, except something

intangible yet powerful and indestructible.

The motives of those who thronged from all sides to Moscow after it had been cleared of the enemy were most diverse and personal, and at first for the most part savage and brutal. One motive only they all had in common: a desire to get to the place that had been called Moscow, to apply their activities there.

Within a week Moscow already had fifteen thousand inhabitants, in a fortnight twenty-five thousand, and so on. By the autumn of 1813 the number, ever increasing and increasing, exceeded what it had been in 1812.

The first Russians to enter Moscow were the Cossacks of Wintzingerode's detachment, peasants from the adjacent villages, and residents who had fled from Moscow and had been hiding in its vicinity. The Russians who entered Moscow, finding it plundered, plundered
it in their turn. They continued what the French had
begun. Trains of peasant carts came to Moscow to carry off to the villages what had been abandoned in the ruined houses and the streets. The Cossacks carried off what they could to their camps, and the householders seized all they could find in other houses and moved it to their own, pretending that it was their property.

But the first plunderers were followed by a second and a third contingent, and with increasing numbers plundering became more and more difficult and assumed more definite forms.

The French found Moscow abandoned but with all the organizations of regular life, with diverse branches of commerce and craftsmanship, with luxury, and governmental and religious institutions. These forms were lifeless but still existed. There were bazaars, shops, warehouses, market stalls, granaries--for the most part still stocked with goods--and there were factories and workshops, palaces and wealthy houses filled with luxuries, hospitals, prisons,
government offices, churches, and cathedrals. The longer
the French remained the more these forms of town life perished, until finally all was merged into one confused, lifeless scene of plunder.

The more the plundering by the French continued, the more both the wealth of Moscow and the strength of its plunderers was destroyed. But plundering by the Russians, with which the reoccupation of the city began, had an opposite effect: the longer it continued and the greater the number of people taking part in it the more rapidly was the wealth of the city and its regular life restored.

Besides the plunderers, very various people, some drawn by curiosity, some by official duties, some by self-interest--house owners, clergy, officials of all kinds, tradesmen, artisans, and peasants--streamed into Moscow as blood flows to the heart.

Within a week the peasants who came with empty carts to carry off plunder were stopped by the authorities and made to cart the corpses out of the
town. Other peasants, having heard of their comrades' discomfiture, came to town bringing rye, oats, and hay, and beat down one another's prices to below what they had been in former days. Gangs of carpenters hoping for high pay arrived in Moscow every day, and on all sides logs were being hewn, new houses built, and old, charred ones repaired. Tradesmen began trading in booths. Cookshops and taverns were opened in partially burned houses. The clergy resumed the services in many churches that had not been burned. Donors contributed Church property that had been stolen. Government clerks set up their baize-covered tables and their pigeonholes of documents in small rooms. The higher authorities and the police organized the distribution of goods left behind by the French. The owners of houses in which much property had been left, brought there from other houses, complained of the injustice of taking everything to the Faceted Palace in the Kremlin; others insisted that as the French had gathered
things from different houses into this or that house, it would be unfair to allow its owner to keep all that was found there. They abused the police and bribed them, made out estimates at ten times their value for government stores that had perished in the fire, and demanded relief. And Count Rostopchin wrote proclamations.

CHAPTER XV

At the end of January Pierre went to Moscow and stayed in an annex of his house which had not been burned. He called on Count Rostopchin and on some acquaintances who were back in Moscow, and he intended to leave for Petersburg two days later. Everybody was celebrating the victory, everything was bubbling with life in the ruined but reviving city. Everyone was pleased to see Pierre, everyone wished to meet him, and everyone questioned him about what he had seen. Pierre felt particularly well disposed toward them all, but was now instinctively on his guard for fear of binding himself in

any way. To all questions put to him--whether important or quite trifling--such as: Where would he live? Was he going to rebuild? When was he going to Petersburg and would he mind taking a parcel for someone?--he replied: "Yes, perhaps," or, "I think so," and so on.

He had heard that the Rostovs were at Kostroma but the thought of Natasha seldom occurred to him. If it did it was only as a pleasant memory of the distant past. He felt himself not only free from social obligations but also from that feeling which, it seemed to him, he had aroused in himself.

On the third day after his arrival he heard from the Drubetskoys that Princess Mary was in Moscow. The death, sufferings, and last days of Prince Andrew had often occupied Pierre's thoughts and now recurred to him with fresh vividness. Having heard at dinner that Princess Mary was in Moscow and living in her house--which had not been burned--in Vozdvizhenka Street, he drove that same evening to see her.

On his way to the house Pierre kept thinking of Prince Andrew, of their friendship, of his various meetings with him, and especially of the last one at Borodino.

"Is it possible that he died in the bitter frame of mind he was then in? Is it possible that the meaning of life was not disclosed to him before he died?" thought Pierre. He recalled Karataev and his death and involuntarily began to compare these two men, so different, and yet so similar in that they had both lived and both died and in the love he felt for both of them.

Pierre drove up to the house of the old prince in a most serious mood. The house had escaped the fire; it showed signs of damage but its general aspect was unchanged. The old footman, who met Pierre with a stern face as if wishing to make the visitor feel that the absence of the old prince had not disturbed the order of things in the house, informed him that the princess had gone to her own apartments, and that she received on Sundays.

"Announce me. Perhaps she will see me," said Pierre.

"Yes, sir," said the man. "Please step into the portrait gallery."

A few minutes later the footman returned with Dessalles, who brought word from the princess that she would be very glad to see Pierre if he would excuse her want of ceremony and come upstairs to her apartment.

In a rather low room lit by one candle sat the princess and with her another person dressed in black. Pierre remembered that the princess always had lady companions, but who they were and what they were like he never knew or remembered. "This must be one of her companions," he thought, glancing at the lady in the black dress.

The princess rose quickly to meet him and held out her hand.

"Yes," she said, looking at his altered face after he had kissed her hand, "so this is how we meet again. He spoke of you even at the very last," she went on, turning her eyes from Pierre to her companion with a shyness that surprised him for an instant.

"I was so glad to hear of your safety. It was the first piece of good news we had received for a long time."

Again the princess glanced round at her companion with even more uneasiness in her manner and was about to add something, but Pierre interrupted her.

"Just imagine--I knew nothing about him!" said he. "I thought he had been killed. All I know I heard at second hand from others. I only know that he fell in with the Rostovs.... What a strange coincidence!"

Pierre spoke rapidly and with animation. He glanced once at the companion's face, saw her attentive and kindly gaze fixed on him, and, as often happens when one is talking, felt somehow that this companion in the black dress was a good, kind, excellent creature who would not hinder his conversing freely with Princess Mary.

But when he mentioned the Rostovs, Princess Mary's face expressed still greater embarrassment. She again glanced rapidly from Pierre's face to that of the lady in the black dress and said:

"Do you really not recognize her?"

Pierre looked again at the companion's pale, delicate face with its black eyes and peculiar mouth, and something near to him, long forgotten and more than sweet, looked at him from those attentive eyes.

"But no, it can't be!" he thought. "This stern, thin, pale face that looks so much older! It cannot be she. It merely reminds me of her." But at that moment Princess Mary said, "Natasha!" And with difficulty, effort, and stress, like the opening of a door grown rusty on its hinges, a smile appeared on the face with the attentive eyes, and from

that opening door came a breath of fragrance which suffused Pierre with a happiness he had long forgotten and of which he had not even been thinking--especially at that moment. It suffused him, seized him, and enveloped him completely. When she smiled doubt was no longer possible, it was Natasha and he loved her.

At that moment Pierre involuntarily betrayed to her, to Princess Mary, and above all to himself, a secret of which he himself had been unaware. He flushed joyfully yet with painful distress. He tried to hide his agitation. But the more he tried to hide it the more clearly--clearer than any words could have done--did he betray to himself, to her, and to Princess Mary that he loved her.

"No, it's only the unexpectedness of it," thought Pierre. But as soon as he tried to continue the conversation he had begun with Princess Mary he again glanced at Natasha, and a still-deeper flush suffused his face and a still-stronger agitation of mingled joy and fear seized his soul. He became confused in his speech and stopped in the middle of what he was saying.

Pierre had failed to notice Natasha because he did not at all expect to see her there, but he had failed to recognize her because the change in her since he last saw her was immense. She had grown thin and pale, but that was not what made her unrecognizable; she was unrecognizable at the moment he entered because on that face whose eyes had always shone with a suppressed smile of the joy of life, now when he first entered and glanced at her there was not the least shadow of a smile: only her eyes were kindly attentive and sadly interrogative.

Pierre's confusion was not reflected by any confusion on Natasha's part, but only by the pleasure that just perceptibly lit up her whole face.

CHAPTER XVI

"She has come to stay with me," said Princess Mary. "The count and countess will be here in a few days. The countess is in a dreadful state; but it was necessary for Natasha herself to see a doctor. They insisted on her coming with me."

"Yes, is there a family free from sorrow now?" said Pierre, addressing Natasha. "You know it happened the very day we were rescued. I saw him. What a delightful boy he was!"

Natasha looked at him, and by way of answer to his words her eyes widened and lit up.

"What can one say or think of as a consolation?" said Pierre. "Nothing! Why had such a splendid boy, so full of life, to die?"

"Yes, in these days it would be hard to live without faith..." remarked Princess Mary.

"Yes, yes, that is really true," Pierre hastily interrupted her.

"Why is it true?" Natasha asked, looking attentively into Pierre's eyes.

"How can you ask why?" said Princess Mary. "The thought alone of what awaits..."

Natasha without waiting for Princess Mary to finish again looked inquiringly at Pierre.

"And because," Pierre continued, "only one who believes that there is a God ruling us can bear a loss such as hers and... yours."

Natasha had already opened her mouth to speak but suddenly stopped. Pierre hurriedly turned away from her and again addressed Princess Mary, asking about his friend's last days.

Pierre's confusion had now almost vanished, but at the same time he felt that his freedom had also completely gone. He felt that there was now a judge of his every word and action whose judgment mattered more to him than that of all the rest of the world. As he spoke now he was considering what impression his words would make on Natasha. He did not purposely say things to please her, but whatever he was saying he regarded from her standpoint.

Princess Mary--reluctantly as is usual in such cases--began telling of the condition in which she had found Prince Andrew. But Pierre's face quivering with emotion, his questions and his eager restless expression, gradually compelled her to go into details which she feared to recall for her own sake.

"Yes, yes, and so...?" Pierre kept saying as he leaned toward her

with his whole body and eagerly listened to her story. "Yes, yes... so he grew tranquil and softened? With all his soul he had always sought one thing--to be perfectly good--so he could not be afraid of death. The faults he had--if he had any--were not of his making. So he did soften?... What a happy thing that he saw you again," he added, suddenly turning to Natasha and looking at her with eyes full of tears.

Natasha's face twitched. She frowned and lowered her eyes for a moment. She hesitated for an instant whether to speak or not.

"Yes, that was happiness," she then said in her quiet voice with its deep
chest notes. "For me it certainly was happiness." She paused. "And he... he... he said he was wishing for it at the very moment I entered the room...."

Natasha's voice broke. She blushed, pressed her clasped hands on her knees, and then controlling herself with an evident effort lifted her head and began to speak rapidly.

"We knew nothing of it when we started from Moscow. I did not dare to ask about him. Then suddenly Sonya told me he was traveling with us. I had no idea and could not imagine what state he was in, all I wanted was to see him and be with him," she said, trembling, and breathing quickly.

And not letting them interrupt her she went on to tell what she had never yet mentioned to anyone--all she had lived through during those three weeks of their journey and life at Yaroslavl.

Pierre listened to her with lips parted and eyes fixed upon her full of tears. As he listened he did not think of Prince Andrew, nor of death, nor of what she was telling. He listened to her and
felt only
pity for her, for what she was suffering now while she was speaking.

Princess Mary, frowning in her effort to hold back her tears, sat beside Natasha, and heard for the first time the story of those last days of her brother's and Natasha's love.

Evidently Natasha needed to tell that painful yet joyful tale.

She spoke, mingling most trifling details with the intimate secrets of her soul, and it seemed as if she could never finish. Several times she repeated the same thing twice.

Dessalles' voice was heard outside the door asking whether little

Nicholas might come in to say good night.

"Well, that's all--everything," said Natasha.

She got up quickly just as Nicholas entered, almost ran to the door which was hidden by curtains, struck her head against it, and rushed from the room with a moan either of pain or sorrow.

Pierre gazed at the door through which she had disappeared and did not understand why he suddenly felt all alone in the world.

Princess Mary roused him from his abstraction by drawing his attention to her nephew who had entered the room.

At that moment of emotional tenderness young Nicholas' face, which resembled his father's, affected Pierre so much that when he had kissed the boy he got up quickly, took out his handkerchief, and went to the window. He wished to take leave of Princess Mary, but she would not let him go.

"No, Natasha and I sometimes don't go to sleep till after two, so please don't go. I will order supper. Go downstairs, we will come immediately."

Before Pierre left the room Princess Mary told him: "This is the first time she has talked of him like that."

CHAPTER XVII

Pierre was shown into the large, brightly lit dining room; a few minutes later he heard footsteps and Princess Mary entered with Natasha. Natasha was calm, though a severe and grave expression had again settled on her face. They all three of them now experienced that feeling of awkwardness which usually follows after a serious and heartfelt talk.

It is impossible to go back to the same conversation, to talk of trifles is awkward, and yet the desire to speak is there and silence seems like affectation. They went silently to table. The footmen drew back the chairs and pushed them up again. Pierre unfolded his cold table napkin and, resolving to break the silence, looked at Natasha and at Princess Mary. They had evidently both formed the same resolution; the eyes of both shone with

satisfaction and a confession that besides sorrow life also has joy.

"Do you take vodka, Count?" asked Princess Mary, and those words suddenly banished the shadows of the past. "Now tell us about yourself," said she. "One hears such improbable wonders about you."

"Yes," replied Pierre with the smile of mild irony now habitual to him. "They even tell me wonders I myself never dreamed of! Mary Abramovna invited me to her house and kept telling me what had happened, or ought to have happened, to me. Stepan Stepanych also instructed me how I ought to tell
of my experiences. In general I have
noticed that it is very easy to be an interesting man (I am an interesting man now); people invite me out and tell me all about myself."

Natasha smiled and was on the point of speaking.

"We have been told," Princess Mary interrupted her, "that you lost two millions in Moscow. Is that true?"

"But I am three times as rich as before," returned Pierre.

Though the position was now altered by his decision to pay his wife's debts and to rebuild his houses, Pierre still maintained that he had become three times as rich as before.

"What I have certainly gained is freedom," he began seriously, but did not continue, noticing that this theme was too egotistic.

"And are you building?"

"Yes. Savelich says I must!"

"Tell me, you did not know of the countess' death when you decided to remain in Moscow?" asked Princess Mary and immediately blushed, noticing that her question, following his mention of freedom, ascribed to his words a meaning he had perhaps
not intended.

"No," answered Pierre, evidently not considering awkward the meaning Princess Mary had given to his words. "I heard of it in Orel and you cannot imagine how it shocked me. We were not an exemplary couple," he added quickly, glancing at Natasha and noticing on her face curiosity as to how he would speak of his wife, "but her death shocked me terribly. When two people quarrel they are always both in fault, and one's own guilt suddenly becomes terribly serious when the other is no longer alive. And then such a death... without friends and

without consolation! I am very, very sorry for her," he concluded, and was pleased to notice a look of glad approval on Natasha's face.

"Yes, and so you are once more an eligible bachelor," said Princess Mary.

Pierre suddenly flushed crimson and for a long time tried not to look at Natasha. When he ventured to glance her way again her face was cold, stern, and he fancied even contemptuous.

"And did you really see and speak to Napoleon, as we have been told?" said Princess Mary.

Pierre laughed.

"No, not once! Everybody seems to imagine that being taken prisoner means being Napoleon's guest. Not only did I never see him but I heard nothing about him--I was in much lower company!"

Supper was over, and Pierre who at first declined to speak about his captivity was gradually led on to do so.

"But it's true that you remained in Moscow to kill Napoleon?" Natasha asked with a slight smile. "I guessed it then when we met at the Sukharev tower, do you remember?"

Pierre admitted that it was true, and from that was gradually led by Princess Mary's questions and especially by Natasha's into giving a detailed account of his adventures.

At first he spoke with the amused and mild irony now customary with him toward everybody and especially toward himself, but when he came to describe the horrors and sufferings he had witnessed he was unconsciously carried away and began speaking with the suppressed emotion of a man re-experiencing in recollection strong impressions he has lived through.

Princess Mary with a gentle smile looked now at Pierre and now at Natasha. In the whole narrative she saw only Pierre and his goodness. Natasha, leaning on her elbow, the expression of her face constantly changing with the narrative, watched Pierre with an attention that never wandered--evidently herself experiencing all that he described. Not only her look, but her exclamations and the brief questions she put, showed Pierre that she understood just what he wished to convey. It was clear that she understood not only what he said but also what he wished to, but could not, express in words.

The account Pierre gave of the incident with the child and the woman for protecting whom he was arrested was this: "It was an awful sight--children abandoned, some in the flames... One was snatched out before my eyes... and there were women who had their things snatched off and their earrings torn out..." he flushed and grew confused. "Then
a patrol arrived and all the men--all those who were

not looting, that is--were arrested, and I among them."

"I am sure you're not telling us everything; I am sure you did something..." said Natasha and pausing added, "something fine?"

Pierre continued. When he spoke of the execution he wanted to pass over the horrible details, but Natasha insisted that he should not omit anything.

Pierre began to tell about Karataev, but paused. By this time he had risen from the table and was pacing the room, Natasha following him with her eyes. Then he added:

"No, you can't understand what I learned from that illiterate man-that simple fellow."

"Yes, yes, go on!" said Natasha. "Where is he?"

"They killed him almost before my eyes."

And Pierre, his voice trembling continually, went on to tell of the last days of their retreat, of Karataev's illness and his death.

He told of his adventures as he had never yet recalled them. He now, as it were, saw a new meaning in all he had gone through. Now
that
he was telling it all to Natasha he experienced that pleasure which a man has when women listen to him--not clever women who when listening either try to remember what they hear to enrich their minds and when opportunity offers to retell it, or who wish to adopt it to some thought of their own and promptly contribute their own clever comments prepared in their little mental workshop--but the pleasure given by real women gifted with a capacity to select and absorb the very best a man shows of himself. Natasha without knowing it was all attention: she did not lose a word, no single quiver in Pierre's voice, no look, no twitch of a muscle in his face, nor a single gesture. She caught the unfinished word in its flight and took it straight into her open heart, divining the secret meaning of all Pierre's mental travail.

Princess Mary understood his story and sympathized with him, but she now saw something else that absorbed all her attention. She saw the possibility of love and happiness
between Natasha and Pierre, and
the first thought of this filled her heart with gladness.

It was three o'clock in the morning. The footmen came in with sad and stern faces to change the candles, but no one noticed them.

Pierre finished his story. Natasha continued to look at him intently with bright, attentive, and animated eyes, as if trying to understand something more which he had perhaps left untold. Pierre in shamefaced and happy confusion glanced occasionally at her, and tried to think what to say next to introduce a fresh subject. Princess Mary was silent. It occurred to none of them that it was three o'clock and time to go to bed.

"People speak of misfortunes and sufferings," remarked Pierre, "but if at this moment I were asked: 'Would you rather be what you were before you were taken prisoner, or go through all this again?' then for heaven's sake let me again have captivity and horseflesh! We imagine that when we are thrown out of our usual ruts all is lost, but it is
only then that what is new and good begins. While
there is life there is happiness. There is much, much before us. I say this to you," he added, turning to Natasha.

"Yes, yes," she said, answering something quite different. "I too should wish nothing but to relive it all from the beginning."

Pierre looked intently at her.

"Yes, and nothing more." said Natasha.

"It's not true, not true!" cried Pierre. "I am not to blame for being alive and wishing to live--nor you either."

Suddenly Natasha bent her head, covered her face with her hands, and began to cry.

"What is it, Natasha?" said Princess Mary.

"Nothing, nothing." She smiled at Pierre through her tears. "Good night! It is time for bed."

Pierre rose and took his leave.

Princess Mary and Natasha met as usual in the bedroom. They talked of what Pierre had told them. Princess Mary did not express her opinion of Pierre nor did Natasha speak of him.

"Well, good night, Mary!" said Natasha. "Do you know, I am often afraid that by
not speaking of him" (she meant Prince Andrew) "for fear of not doing justice to our feelings, we forget him."

Princess Mary sighed deeply and thereby acknowledged the justice of Natasha's remark, but she did not express agreement in words.

"Is it possible to forget?" said she.

"It did me so much good to tell all about it today. It was hard and painful, but good, very good!" said Natasha. "I am sure he really loved him. That is why I told him... Was it all right?" she added, suddenly blushing.

"To tell Pierre? Oh, yes. What a splendid man he is!" said Princess Mary.

"Do you know, Mary..." Natasha suddenly said with a mischievous smile such as Princess Mary had not seen on her face for a long time, "he has somehow grown so clean, smooth, and fresh--as if he had just come out of a Russian bath; do you understand? Out of a moral bath. Isn't it true?"

"Yes," replied Princess Mary. "He has greatly improved."

"With a short coat and his hair cropped; just as if, well, just as if he had
come straight from the bath... Papa used to..."

"I understand why he" (Prince Andrew) "liked no one so much as him," said Princess Mary.

"Yes, and yet he is quite different. They say men are friends when they are quite different. That must be true. Really he is quite unlike him--in everything."

"Yes, but he's wonderful."

"Well, good night," said Natasha.

And the same mischievous smile lingered for a long time on her face as if it had been forgotten there.

CHAPTER XVIII

It was a long time before Pierre could fall asleep that night. He paced up and down his room, now turning his thoughts on a difficult problem and frowning, now suddenly shrugging his shoulders and wincing, and now smiling happily.

He was thinking of Prince Andrew, of Natasha, and of their love, at one moment jealous of her past, then reproaching himself for that feeling. It was already six in the morning and he still paced up and down the room.

"Well, what's to be done if it cannot be avoided? What's to be done?
Evidently it has to be so," said he to himself, and hastily undressing he got into bed, happy and agitated but free from hesitation or indecision.

"Strange and impossible as such happiness seems, I must do everything that she and I may be man and wife," he told himself.

A few days previously Pierre had decided to go to Petersburg on the Friday. When he awoke on the Thursday, Savelich came to ask him about packing for the journey.

"What, to Petersburg? What is Petersburg? Who is there in Petersburg?" he asked involuntarily, though only to himself. "Oh, yes, long ago before this happened I did for some reason mean to go to Petersburg," he reflected. "Why? But perhaps I shall go. What a good fellow he is and how attentive, and how he remembers everything," he thought, looking at Savelich's old face, "and what a pleasant smile he has!"

"Well, Savelich, do you still not wish to accept your freedom?" Pierre asked him.

"What's the good of freedom to me, your excellency? We lived under the late count--the kingdom of heaven be his!--and we have lived under you too, without ever being wronged."

"And your children?"

"The children will live just the same. With such masters one can

live."

"But what about my heirs?" said Pierre. "Supposing I suddenly marry... it might happen," he added with an involuntary smile.

"If I may take the liberty, your excellency, it would be a good thing."

"How easy he thinks it," thought Pierre. "He doesn't know how terrible it is and how dangerous. Too soon or too late... it is terrible!"

"So what are your orders? Are you starting tomorrow?" asked Savelich.

"No, I'll put it off for a bit. I'll tell you later. You must forgive the trouble I have put you to," said Pierre, and seeing Savelich smile, he thought: "But how strange it is that he should not know that now there is no Petersburg for me, and that that must be settled first of all! But probably he knows it well enough and is only pretending. Shall I have a talk with him and see what he thinks?"
Pierre reflected. "No, another time."

At breakfast Pierre told the princess, his cousin, that he had been to see Princess Mary the day before and had there met--"Whom do you think? Natasha Rostova!"

The princess seemed to see nothing more extraordinary in that than if he had seen Anna Semenovna.

"Do you know her?" asked Pierre.

"I have seen the princess," she replied. "I heard that they were arranging a match for her with young Rostov. It would be a very good thing for the Rostovs, they are said to be utterly ruined."

"No; I mean do you know Natasha Rostova?"

"I heard about that affair of hers at the time. It was a great pity."

"No, she either doesn't understand or is pretending," thought Pierre. "Better not say anything to her either."

The princess too had prepared provisions for Pierre's journey.

"How kind they all are," thought Pierre. "What is surprising is that

they should trouble about these things now when it can no longer be of interest to them. And all
for me!"

On the same day the Chief of Police came to Pierre, inviting him to send a representative to the Faceted Palace to recover things that were to be returned to their owners that day.

"And this man too," thought Pierre, looking into the face of the Chief of Police. "What a fine, good-looking officer and how kind. Fancy bothering about such trifies now! And they actually say he is not honest and takes bribes. What nonsense! Besides, why shouldn't he take bribes? That's the way he was brought up, and everybody does it. But what a kind, pleasant face and how he smiles as he looks at me."

Pierre went to Princess Mary's to dinner.

As he drove through the streets past the houses that had been burned down, he was surprised by the beauty of those ruins. The picturesqueness of the chimney stacks and tumble-down walls of the burned-out quarters of the town, stretching out and concealing one another, reminded him of the Rhine and the Colosseum. The cabmen he met and their passengers,
the carpenters cutting the timber for new
houses with axes, the women hawkers, and the shopkeepers, all looked at him with cheerful beaming eyes that seemed to say: "Ah, there he is! Let's see what will come of it!"

At the entrance to Princess Mary's house Pierre felt doubtful whether he had really been there the night before and really seen Natasha and talked to her. "Perhaps I imagined it; perhaps I shall go in and find no one there." But he had hardly entered the room before he felt her presence with his whole being by the loss of his sense of freedom. She was in the same black dress with soft folds and her hair was done the same way as the day before, yet she was quite different. Had she been like this when he entered the day before he could not for a moment have failed to recognize her.

She was as he had known her almost as a child and later on as Prince Andrew's fiancee. A bright questioning light shone in her eyes, and on her face was a friendly and strangely roguish expression.

Pierre
dined with them and would have spent the whole evening there, but Princess Mary was going to vespers and Pierre left the house with her.

Next day he came early, dined, and stayed the whole evening. Though Princess Mary and Natasha were evidently glad to see their visitor and though all Pierre's interest was now centered in that house, by the evening they had talked over everything and the conversation passed from one trivial topic to another and repeatedly broke off. He stayed so long that Princess Mary and Natasha exchanged glances, evidently wondering when he would go. Pierre noticed this but could not go. He felt uneasy and embarrassed, but sat on because he simply could not get up and take his leave.

Princess Mary, foreseeing no end to this, rose first, and complaining of a headache began to say good night.

"So you are going to Petersburg tomorrow?" she asked.

"No, I am not going," Pierre replied hastily, in a surprised tone and as though offended. "Yes... no... to Petersburg? Tomorrow--but I won't say good-by yet. I will call round in case you have any commissions for me," said he, standing before Princess Mary and turning red, but not taking his departure.

Natasha gave him her hand and went out. Princess Mary on the other hand instead of going away sank into an armchair, and looked sternly and intently at him with her deep, radiant eyes. The weariness she had plainly shown before had now quite passed off. With a deep and long-drawn sigh she seemed to be prepared for a lengthy talk.

When Natasha left the room Pierre's confusion and awkwardness immediately vanished and were replaced by eager excitement. He quickly moved an armchair toward Princess Mary.

"Yes, I wanted to tell you," said he, answering her look as if she had spoken. "Princess, help me! What am I to do? Can I hope? Princess, my dear friend, listen! I know it all. I know I am not worthy of her, I know it's impossible to speak of it now. But I want to be a brother to her. No, not that, I don't, I can't..."

He paused and rubbed his face and eyes with his hands.

"Well," he went on with an evident effort at self-control and coherence. "I don't know when I began to love her, but I have loved her and her alone all my life, and I love her so that I cannot imagine life without her. I cannot propose to her at present, but the thought that perhaps she might someday be my wife and that I may be missing that possibility... that possibility... is terrible. Tell me, can I hope? Tell me what I am to do, dear princess!" he added

after a pause, and touched her hand as she did not reply.

"I am thinking of what you have told me," answered Princess Mary. "This is what I will say. You are right that to speak to her of love at present..."

Princess Mary stopped. She was going to say that to speak of love was impossible, but she stopped because she had seen by the sudden change in Natasha two days before that she would not only not be hurt if Pierre spoke of his love, but that it was the very thing she wished for.

"To speak to her now wouldn't do," said the princess all the same.

"But what am I to do?"

"Leave it to me," said Princess Mary. "I know..."

Pierre was looking into Princess Mary's eyes.

"Well?... Well?..." he said.

"I know that she loves... will love you," Princess Mary corrected herself.

Before her words were out, Pierre had sprung up and with a frightened expression seized Princess Mary's hand.

"What makes you think so? You think I may hope? You think...?"

"Yes, I think so," said Princess Mary with a smile. "Write to her parents, and leave it to me. I will tell her when I can. I wish it to happen and my heart tells me it will."

"No, it cannot be! How happy I am! But it can't be.... How happy I am! No, it can't be!" Pierre kept saying as he kissed Princess Mary's hands.

"Go to Petersburg, that will be best. And I will write to you," she said.

"To Petersburg? Go there? Very well, I'll go. But I may come again tomorrow?"

Next day Pierre came to say good-by. Natasha was less animated than she had been the day before; but that day as he looked at her

Pierre sometimes felt as if he was vanishing and that neither he nor she existed any longer, that nothing existed but happiness. "Is it possible? No, it can't be," he told himself at every look, gesture, and word that filled his soul with joy.

When on saying good-by he took her thin, slender hand, he could not help holding it a little longer in his own.

"Is it possible that this hand, that face, those eyes, all this treasure of feminine charm so strange to me now, is it possible that it will one day be mine forever, as familiar to me as I am to myself?... No, that's impossible!..."

"Good-by, Count," she said aloud. "I shall look forward very much to your return," she added in a whisper.

And these simple words, her look, and the expression on her face which accompanied them, formed for two months the subject of inexhaustible memories, interpretations, and happy meditations for Pierre. "'I shall look forward very much to your return....' Yes, yes, how did she say it? Yes, 'I shall look forward very much to your return.' Oh, how happy I am! What is happening to me? How happy I am!" said Pierre to himself.

CHAPTER XIX

There was nothing in Pierre's soul now at all like what had troubled it during his courtship of Helene.

He did not repeat to himself with a sickening feeling of shame the words he had spoken, or say: "Oh, why did I not say that?" and, "Whatever made me say 'Je vous aime'?" On the contrary, he now repeated in imagination every word that he or Natasha had spoken and pictured every detail of her face and smile, and did not wish to diminish or add anything, but only to repeat it again and again. There was now not a shadow of doubt in his mind as to whether what he had undertaken was right or wrong. Only one terrible doubt sometimes crossed his mind: "Wasn't it all a dream? Isn't Princess Mary mistaken? Am I not too conceited and self-confident? I believe all this--and suddenly Princess Mary will tell her, and she will be sure to smile and say: 'How strange! He must be deluding himself. Doesn't

he know that he is a man, just a man, while I...? I am something altogether different and higher.'"

That was the only doubt often troubling Pierre. He did not now make any plans. The happiness before him appeared so inconceivable that if only he could attain it, it would be the end of all things. Everything ended with that.

A joyful, unexpected frenzy, of which he had thought himself incapable, possessed him. The whole meaning of life--not for him alone but for the whole world--seemed to him centered in his love and the possibility of being loved by her. At times everybody seemed to him to be occupied with one thing only--his future happiness. Sometimes it seemed to him that other people were all as pleased as he was himself and merely tried to hide that pleasure by pretending to be busy with other interests. In every word and gesture he saw allusions to his happiness. He often surprised those he met by his significantly happy looks and smiles which seemed to express a secret understanding between him and them. And when he realized that people might not be aware of his happiness, he pitied them with his whole heart and felt a desire somehow to explain to them that all that occupied them was a mere frivolous trifle unworthy of attention.

When it was suggested to him that he should enter the civil service, or when the war or any general political affairs were discussed on the assumption that everybody's welfare depended on this or that issue of events, he would listen with a mild and pitying smile and surprise people by his strange comments. But at this time he saw everybody--both those who, as he imagined, understood the real meaning of life (that is, what he was feeling) and those unfortunates who evidently did not understand it--in the bright light of the emotion that shone within himself, and at once without any effort saw in everyone he met everything that was good and worthy of being loved.

When dealing with the affairs and papers of his dead wife, her memory aroused in him no feeling but pity that she had not known the bliss he now knew. Prince Vasili, who having obtained a new post and some fresh decorations was particularly proud at this time, seemed to him a pathetic, kindly old man much to be pitied.

Often in afterlife Pierre recalled this period of blissful insanity. All the views he formed of men and circumstances at this time remained true for him always. He not only did not renounce them subsequently, but when he was in doubt or inwardly at variance, he referred to the views he had held at this time of his madness and they always proved correct.

"I may have appeared strange and queer then," he thought, "but I was not so mad as I seemed. On the contrary I was then wiser and had more insight than at any other time, and understood all that is worth understanding in life, because...
because I was happy."

Pierre's insanity consisted in not waiting, as he used to do, to discover personal attributes which he termed "good qualities" in people before loving them; his heart was now overflowing with love, and by loving people without cause he discovered indubitable causes for loving them.

CHAPTER XX

After Pierre's departure that first evening, when Natasha had said to Princess Mary with a gaily mocking smile: "He looks just, yes, just as if he had come out of a Russian bath--in a short coat and with his hair cropped," something hidden and unknown to herself, but irrepressible, awoke in Natasha's soul.

Everything: her face, walk, look, and voice, was suddenly altered. To her own surprise a power of life and hope of happiness rose to the surface and demanded satisfaction. From that evening she seemed to have forgotten all that had happened to her. She no longer complained of her position, did not say a word about the past, and no longer feared to make happy
plans for the future. She spoke
little of Pierre, but when Princess Mary mentioned him a long-extinguished light once more kindled in her eyes and her lips curved with a strange smile.

The change that took place in Natasha at first surprised Princess Mary; but when she understood its meaning it grieved her. "Can she have loved my brother so little as to be able to forget him so soon?" she thought when she reflected on the change. But when she was with Natasha she was not vexed with her and did not reproach her. The reawakened power of life that had seized Natasha was so evidently irrepressible and unexpected by her that in her presence Princess Mary felt that she had no right to reproach her even in her heart.

Natasha gave herself up so fully and frankly to this new feeling

that she did not try to hide the fact that she was no longer sad, but bright and cheerful.

When Princess Mary returned to her room after her nocturnal talk with Pierre, Natasha met her on the threshold.

"He has spoken? Yes? He has spoken?" she repeated.

And a joyful yet pathetic expression which seemed to beg forgiveness for her joy settled on Natasha's face.

"I wanted to listen at the door, but I knew you would tell me."

Understandable and touching as the look with which Natasha gazed at her seemed to Princess Mary, and sorry as she was to see her agitation, these words pained her for a moment. She remembered her brother and his love.

"But what's to be done? She can't help it," thought the princess.

And with a sad and rather stern look she told Natasha all that Pierre had said. On hearing that he was going to Petersburg Natasha was astounded.

"To Petersburg!" she repeated as if unable to understand.

But noticing the grieved expression on Princess Mary's face she guessed the reason of that sadness and suddenly began to cry.

"Mary," said she, "tell me what I should do! I am afraid of being bad. Whatever you tell me, I will do. Tell me...."

"You love him?"

"Yes," whispered Natasha.

"Then why are you crying? I am happy for your sake," said Princess Mary, who because of those tears quite forgave Natasha's joy.

"It won't be just yet--someday. Think what fun it will be when I am his wife and you marry Nicholas!"

"Natasha, I have asked you not to speak of that. Let us talk about you."

They were silent awhile.

"But why go to Petersburg?" Natasha suddenly asked, and hastily replied to her own question. "But no, no, he must... Yes, Mary, He must...."

FIRST EPILOGUE: 1813 --20

CHAPTER I

Seven years had passed. The storm-tossed sea of European history had subsided within its shores and seemed to have become calm. But the mysterious forces that move humanity (mysterious because the laws of their motion are unknown to us) continued to operate.

Though the surface of the sea of history seemed motionless, the movement of humanity went on as unceasingly as the flow of time. Various groups of people formed and dissolved, the coming formation and dissolution of kingdoms and displacement of peoples was in course of preparation.

The sea of history was not driven spasmodically from shore to shore as previously. It was seething in its depths. Historic figures were not borne by the waves from one shore to another as before. They now seemed to rotate on one spot. The historical figures at the head of armies, who formerly reflected the movement of the masses by ordering wars, campaigns, and battles, now reflected the restless movement by political and diplomatic combinations, laws, and treaties.

The historians call this activity of the historical figures "the reaction."

In dealing with this period they sternly condemn the historical personages who, in their opinion, caused what they describe as the reaction. All the well-known people of that period, from Alexander and Napoleon to Madame de Stael, Photius, Schelling, Fichte, Chateaubriand, and the rest, pass before their stern judgment seat and are acquitted or condemned according to whether they

conduced to
progress or to reaction.

According to their accounts a reaction took place at that time in
Russia also, and the chief culprit was Alexander I, the same man who
according to them was the chief cause of the liberal movement at the
commencement of his reign, being the savior of Russia.

There is no one in Russian literature now, from schoolboy essayist
to learned historian, who does not throw his little stone at Alexander
for things he did wrong at this period of his reign.

"He ought to have acted in this way and in that way. In this case he
did well and in that case badly. He behaved admirably at the beginning
of his reign and during 1812, but acted badly by giving a constitution
to Poland, forming the Holy Alliance, entrusting power to Arakcheev,
favoring Golitsyn and mysticism, and afterwards Shishkov and
Photius. He also acted badly by concerning himself with the active
army and disbanding the Semenov regiment."

It would take a dozen pages to enumerate all the reproaches
the
historians address to him, based on their knowledge of what is good
for humanity.

What do these reproaches mean?

Do not the very actions for which the historians praise Alexander
I (the liberal attempts at the beginning of his reign, his struggle
with Napoleon, the firmness he displayed in 1812 and the campaign of
1813) flow from the same sources--the circumstances of his birth,
education, and life--that made his personality what it was and from
which the actions for which

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1.301 glob-parent 6.0.2

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1.302 map-obj 4.3.0

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1.305 babel-plugin-istanbul 6.1.1

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1.307 source-map-support 0.5.21

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1.308 lines-and-columns 1.2.4

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1.310 hermes-profile-transformer 0.0.6

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1.311 sudo-prompt 9.2.1

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#

##############################################################################
##
##  Gradle start up script for UN*X
##
##############################################################################

# Attempt to set APP_HOME
# Resolve links: $0 may be a link
PRG="$0"
# Need this for relative symlinks.
while
 [ -h "$PRG" ] ; do
  ls=`ls -ld "$PRG"`
  link=`expr "$ls" : '.*-> \(.*\)$'`
  if expr "$link" : '/.*' > /dev/null; then
     PRG="$link"
  else
     PRG=`dirname "$PRG"`"/$link"
  fi
done
SAVED="`pwd`"
cd "`dirname \"$PRG\"`/" >/dev/null
APP_HOME="`pwd -P`"
cd "$SAVED" >/dev/null

APP_NAME="Gradle"
APP_BASE_NAME=`basename "$0"`

# Add default JVM options here. You can also use JAVA_OPTS and GRADLE_OPTS to pass JVM options to this
script.
DEFAULT_JVM_OPTS="'-Xmx64m" "-Xms64m"'

# Use the maximum available, or set MAX_FD != -1 to use that value.
MAX_FD="maximum"

warn () {
  echo "$*"
}

die () {
  echo
  echo "$*"
  echo
  exit 1
}
```

```
# OS specific support (must be 'true' or 'false').
cygwin=false
msys=false
darwin=false
nonstop=false
case "`uname`" in
 CYGWIN* )
   cygwin=true
   ;;
 Darwin* )
   darwin=true
   ;;
 MINGW* )
   msys=true
   ;;
 NONSTOP* )
   nonstop=true
   ;;
esac

CLASSPATH=$APP_HOME/gradle/wrapper/gradle-wrapper.jar

# Determine
 the Java command to use to start the JVM.
if [ -n "$JAVA_HOME" ] ; then
   if [ -x "$JAVA_HOME/jre/sh/java" ] ; then
      # IBM's JDK on AIX uses strange locations for the executables
      JAVACMD="$JAVA_HOME/jre/sh/java"
   else
      JAVACMD="$JAVA_HOME/bin/java"
   fi
   if [ ! -x "$JAVACMD" ] ; then
      die "ERROR: JAVA_HOME is set to an invalid directory: $JAVA_HOME

Please set the JAVA_HOME variable in your environment to match the
location of your Java installation."
   fi
else
   JAVACMD="java"
   which java >/dev/null 2>&1 || die "ERROR: JAVA_HOME is not set and no 'java' command could be found in
your PATH.

Please set the JAVA_HOME variable in your environment to match the
location of your Java installation."
fi

# Increase the maximum file descriptors if we can.
```

```
if [ "$cygwin" = "false" -a "$darwin" = "false" -a "$nonstop" = "false" ] ; then
  MAX_FD_LIMIT=`ulimit -H -n`
  if [ $? -eq 0 ] ; then
    if [ "$MAX_FD" = "maximum" -o "$MAX_FD" = "max"
 ] ; then
      MAX_FD="$MAX_FD_LIMIT"
    fi
    ulimit -n $MAX_FD
    if [ $? -ne 0 ] ; then
      warn "Could not set maximum file descriptor limit: $MAX_FD"
    fi
  else
    warn "Could not query maximum file descriptor limit: $MAX_FD_LIMIT"
  fi
fi

# For Darwin, add options to specify how the application appears in the dock
if $darwin; then
  GRADLE_OPTS="$GRADLE_OPTS \"-Xdock:name=$APP_NAME\" \"-
Xdock:icon=$APP_HOME/media/gradle.icns\""
fi

# For Cygwin or MSYS, switch paths to Windows format before running java
if [ "$cygwin" = "true" -o "$msys" = "true" ] ; then
  APP_HOME=`cygpath --path --mixed "$APP_HOME"`
  CLASSPATH=`cygpath --path --mixed "$CLASSPATH"`
  JAVACMD=`cygpath --unix "$JAVACMD"`

  # We build the pattern for arguments to be converted via cygpath
  ROOTDIRSRAW=`find -L / -maxdepth 1 -mindepth 1 -type d 2>/dev/null`
  SEP=""
  for dir in $ROOTDIRSRAW ; do
    ROOTDIRS="$ROOTDIRS$SEP$dir"
    SEP="|"

  done
  OURCYGPATTERN="(^($ROOTDIRS))"
  # Add a user-defined pattern to the cygpath arguments
  if [ "$GRADLE_CYGPATTERN" != "" ] ; then
    OURCYGPATTERN="$OURCYGPATTERN|($GRADLE_CYGPATTERN)"
  fi
  # Now convert the arguments - kludge to limit ourselves to /bin/sh
  i=0
  for arg in "$@" ; do
    CHECK=`echo "$arg"|egrep -c "$OURCYGPATTERN" -`
    CHECK2=`echo "$arg"|egrep -c "^-"`                          ### Determine if an option

    if [ $CHECK -ne 0 ] && [ $CHECK2 -eq 0 ] ; then                 ### Added a condition
```

```
        eval `echo args$i`=`cygpath --path --ignore --mixed "$arg"`
    else
        eval `echo args$i`="\"$arg\""
    fi
    i=`expr $i + 1`
  done
  case $i in
    0) set -- ;;
    1) set -- "$args0" ;;
    2) set -- "$args0" "$args1" ;;
    3) set -- "$args0" "$args1" "$args2" ;;
    4) set -- "$args0" "$args1" "$args2" "$args3" ;;
    5) set -- "$args0" "$args1" "$args2" "$args3"
 "$args4" ;;
    6) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" ;;
    7) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" ;;
    8) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" "$args7" ;;
    9) set -- "$args0" "$args1" "$args2" "$args3" "$args4" "$args5" "$args6" "$args7" "$args8" ;;
  esac
fi

# Escape application args
save () {
  for i do printf %s\\n "$i" | sed "s/'/'\\\\''/g;1s/^/'/;\$s/\$/' \\\\/" ; done
  echo " "
}
APP_ARGS=`save "$@"`

# Collect all arguments for the java command, following the shell quoting and substitution rules
eval set -- $DEFAULT_JVM_OPTS $JAVA_OPTS $GRADLE_OPTS "\"-
Dorg.gradle.appname=$APP_BASE_NAME\"" -classpath "\"$CLASSPATH\""
org.gradle.wrapper.GradleWrapperMain "$APP_ARGS"

exec "$JAVACMD" "$@"
```

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1.313 anser 1.4.10

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1.314 babel-preset-fbjs 3.4.0

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1.316 logkitty 0.7.1

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1.317 node-stream-zip 1.15.0

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1.319 babel-plugin-syntax-trailing-function-commas 7.0.0-beta.0

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1.320 nullthrows 1.1.1

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1.321 rc 1.2.8

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* @date 2015-10-26
* @stability 3 - Stable
* @author Lauri Rooden (https://github.com/litejs/natural-compare-lite)
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1.337 strip-json-comments 3.1.1

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1.367 nodelib-fs-walk 1.2.8

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1.398 sprintf-js 1.0.3

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1.426 onetime 5.1.2

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1.458 camelcase 6.3.0

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1.473 slash 4.0.0

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1.533 has-bigints 1.0.2

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1.534 functions-have-names 1.2.3

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1.535 @jridgewell/trace-mapping 0.3.9

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1.537 v8-compile-cache-lib 3.0.1

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1.540 jest-get-type 28.0.2

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1.542 jwalterweatherman 1.1.0

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1.547 conventional-changelog-conventionalcommits 4.6.3

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1.548 source-map 0.7.4

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1.551 @cspotcode/source-map-support 0.8.1

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1.554 @babel/plugin-proposal-optional-catch-binding 7.18.6

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1.555 babel-plugin-proposal-nullish-coalescing-operator 7.18.6

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1.556 @iarna/toml 2.2.5

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1.563 fetch-blob 3.2.0

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1.564 ip 2.0.0

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1.565 @jest/expect-utils 28.1.3

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1.575 wildcard-match 5.1.2

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1.578 clean-stack 4.2.0

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1.579 p-map 5.5.0

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1.580 read-pkg 6.0.0

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1.581 escape-string-regexp 5.0.0

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1.583 camelcase-keys 7.0.2

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1.595 yaml 1.10.2

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1.599 @nicolo-ribaudo/eslint-scope-5-internals 5.1.1-v1

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1.600 del 6.1.1

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1.602 mimic-response 4.0.0

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1.607 type-fest 2.19.0

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1.608 eslint-plugin-react-hooks 4.6.0

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* @version    1.4.0
* @date       2015-10-26
* @stability  3 - Stable
* @author     Lauri Rooden (https://github.com/litejs/natural-compare-lite)
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1.614 appdirsjs 1.2.7

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1.615 @sinclair/typebox 0.24.51

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1.616 uglify-js 3.17.4

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1.617 error-stack-parser 2.1.4

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1.619 meow 10.1.5

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1.621 regenerator-runtime 0.13.11

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1.622 stack-utils 2.0.6

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1.624 safe-regex-test 1.0.0

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1.625 eslint-plugin-prettier 4.2.1

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1.627 jest-pnp-resolver 1.2.3

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[Plug'n'Play](https://github.com/yarnpkg/rfcs/pull/101) resolver for Jest

[![npm version](https://img.shields.io/npm/v/jest-pnp-resolver.svg)](https://www.npmjs.com/package/jest-pnp-resolver)
[![node version](https://img.shields.io/node/v/jest-pnp-resolver.svg)](https://www.npmjs.com/package/jest-pnp-resolver)

This plugin is also available for Rollup ([rollup-plugin-pnp-resolve](https://github.com/arcanis/rollup-plugin-pnp-resolve)), TypeScript ([ts-pnp](https://github.com/arcanis/ts-pnp)), and Webpack ([pnp-webpack-plugin](https://github.com/arcanis/pnp-webpack-plugin))

Installation

```
yarn add -D jest-pnp-resolver
```

Usage

As of `jest@^24.4.0` you don't need to manually add this package anymore. The default resolver will already use PnP.

Simply add the resolver to your configuration. For
example, a minimal `jest.config.js` would be as such:

```js
module.exports = {
resolver: require.resolve(`jest-pnp-resolver`)
};
```

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Found in path(s):
* /opt/cola/permits/1482793554_1669125860.8990495/0/jest-pnp-resolver-1-2-3-tgz/package/README.md

1.628 path-key 4.0.0

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1.629 mimic-fn 4.0.0

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1.630 onetime 6.0.0

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1.631 npm-run-path 5.1.0

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1.634 anymatch 3.1.3

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1.635 normalize-url 8.0.0

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1.636 unicode-match-property-value-ecmascript 2.1.0

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1.638 recast 0.21.5

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1.639 ast-types 0.15.2

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1.640 jsonc-parser 3.2.0

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1.641 before-after-hook 2.2.3

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1.651 @babel/plugin-proposal-object-rest-spread 7.20.7

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1.654 typedarray-to-buffer 3.1.5

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1.667 stop-iteration-iterator 1.0.0

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1.668 es-get-iterator 1.1.3

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1.669 properties 1.8.7

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1.672 http-cache-semantics 4.1.1

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1.679 is-builtin-module 3.2.1

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1.681 eslint-plugin-sonarjs 0.18.0

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1.683 x-term 0.5.0

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1.685 node-abort-controller 3.1.1

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1.686 babel-plugin-proposal-optional-chaining 7.21.0

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1.687 readable-stream 2.3.8

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1.688 esquery 1.5.0

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1.689 is-array-buffer 3.0.2

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1.690 lru-cache 7.18.3

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1.691 inconshreveable-mousetrap 1.1.0

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1.692 spdx-correct 3.2.0

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1.695 data-uri-to-buffer 4.0.1

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data-uri-to-buffer
==========
Generate a Buffer instance from a [Data URI][rfc] string
[![Build Status](https://travis-ci.org/TooTallNate/node-data-uri-to-buffer.svg?branch=master)](https://travis-ci.org/TooTallNate/node-data-uri-to-buffer)

This module accepts a ["data" URI][rfc] String of data, and returns a
node.js `Buffer` instance with the decoded data.

Installation

Install with `npm`:

``` bash
$ npm install data-uri-to-buffer
```

Example

``` js
import dataUriToBuffer from 'data-uri-to-buffer';

// plain-text data is supported
let uri = 'data:,Hello%2C%20World!';
let decoded = dataUriToBuffer(uri);
console.log(decoded.toString());
// 'Hello, World!'

// base64-encoded data is supported
uri = 'data:text/plain; base64,SGVsbG8sIFdvcmxkIQ%3D%3D';
decoded = dataUriToBuffer(uri);
console.log(decoded.toString());
// 'Hello, World!'
```

API
---

dataUriToBuffer(String uri)
 Buffer

The `type` property on the Buffer instance gets set to the main type portion of the "mediatype" portion of the "data" URI, or defaults to `'"text/plain"'` if not specified.

The `typeFull` property on the Buffer instance gets set to the entire "mediatype" portion of the "data" URI (including all parameters), or defaults to `'"text/plain;charset=US-ASCII"'` if not specified.

The `charset` property on the Buffer instance gets set to the Charset portion of the "mediatype" portion of the "data" URI, or defaults to `'"US-ASCII"'` if the entire type is not specified, or defaults to `'""'` otherwise.

Note: If the only the main type is specified but not the charset, e.g. `'"data:text/plain,abc"'`, the charset is set to the empty string. The spec only defaults to US-ASCII as charset if the entire type is not specified.

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[rfc]: http://tools.ietf.org/html/rfc2397

Found
in path(s):
* /opt/cola/permits/1596470688_1678934457.2404861/0/data-uri-to-buffer-4-0-1-1-tgz/package/README.md

1.696 deepmerge 4.3.1

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1.702 color 1.14.1

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1.717 is-yarn-global 0.4.1

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1.718 jetifier 2.0.0

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1.719 issue-parser 6.0.0

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1.720 globby 13.1.4

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1.722 spinner 1.23.0

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1.731 human-signals 4.3.1

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1.734 which-module 2.0.1

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1.736 bplist-parser 0.2.0

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bplist-parser

Binary Mac OS X Plist (property list) parser.

Installation

```bash
$ npm install bplist-parser
```

Quick Examples

```javascript
const bplist = require('bplist-parser');

(async () => {

 const obj = await bplist.parseFile('myPlist.bplist');

 console.log(JSON.stringify(obj));

})();
```

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1.737 eslint-plugin-eslint-comments 3.2.0

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1.738 @types/react-native 0.70.0

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1.742 alessio-shellescape 1.0.0-20170105083845-52074bc9df61

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1.745 define-lazy-prop 3.0.0

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1.747 latest-version 7.0.0

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1.748 eslint-plugin-ft-flow 2.0.3

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1.750 is-inside-container 1.0.0

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1.752 @octokit/request-error 3.0.3

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1.753 execa 7.1.1

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1.756 shell-quote 1.8.1

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1.757 run-applescript 5.0.0

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1.758 has-yarn 3.0.0

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1.759 crypto-random-string 4.0.0

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1.760 prettier 2.8.8

1.761 xdg-basedir 5.1.0

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1.762 @release-it/conventional-changelog 5.1.1

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1.767 lunr 2.3.9

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1.789 scheduler 0.24.0-canary-efb381bbf-20230505

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1.790 @sinonjs/fake-timers 10.3.0

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1.791 babel-plugin-transform-flow-enums 0.0.2

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1.792 jscodeshift 0.14.0

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1.793 flow-enums-runtime 0.0.5

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1.794 cjs-module-lexer 1.2.3

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1.795 @react-native/normalize-colors 0.72.0

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1.796 deprecated-react-native-prop-types 4.1.0

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1.797 pirates 4.0.6

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1.805 @typescript-eslint/scope-manager 5.62.0

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1.810 typed-array-byte-offset 1.0.0

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1.814 vscode-nls 5.2.0

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1.816 eslint-plugin-json 3.1.0

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1.822 espree 9.6.1

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1.827 @es-joy/jsdoccomment 0.36.1

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1.828 jsdoc-type-pratt-parser 3.1.0

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1.829 word-wrap 1.2.5

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1.830 minimatch 7.4.6

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1.831 jest-extended 3.2.4

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1.832 @octokit/types 9.3.2

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1.833 @octokit/core 4.2.4

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1.834 package-json 8.1.1

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1.836 jest-watch-typeahead 2.2.2

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1.837 @octokit/request 6.2.8

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1.838 type-fest 3.13.1

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1.839 pac-proxy-agent 6.0.4

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pac-proxy-agent
==========
A [PAC file][pac-wikipedia] proxy `http.Agent` implementation for HTTP and HTTPS

This module provides an `http.Agent` implementation that retreives the specified
[PAC proxy file][pac-wikipedia] and uses it to resolve which HTTP, HTTPS, or
SOCKS proxy, or if a direct connection should be used to connect to the
HTTP endpoint.

It is designed to be be used with the built-in `http` and `https` modules.

Example

```ts
import * as http from 'http';
import { PacProxyAgent } from 'pac-proxy-agent';

const agent = new PacProxyAgent('pac+https://cloudup.com/ceGH2yZ0Bjp+');

http.get('http://nodejs.org/api/', { agent }, (res) => {
 console.log('"response" event!', res.headers);
 res.pipe(process.stdout);
```

});
```

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[pac-wikipedia]: http://wikipedia.org/wiki/Proxy_auto-config

Found
 in path(s):
* /opt/cola/permits/1754484676_1690542755.639019/0/pac-proxy-agent-6-0-4-tgz/package/README.md

# 1.840 macos-release 3.2.0

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1.841 @octokit/auth-token 3.0.4

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1.842 @octokit/graphql 5.0.6

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1.844 istanbul-reports 3.1.6

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1.845 release-it 15.11.0

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1.846 @appdynamics/react-native-agent 22.12.0

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1.847 vscode-textmate 8.0.0

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1.848 execa 7.2.0

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1.849 boxen 7.1.1

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1.850 inquirer 9.2.6

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1.851 @octokit/plugin-rest-endpoint-methods 7.2.3

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1.852 ora 6.3.1

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1.853 eslint-import-resolver-react-native 0.2.0

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1.855 @octokit/tsconfig 1.0.2

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1.857 @octokit/endpoint 7.0.6

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1.858 typedoc 0.23.28

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1.859 @pnpm/npm-conf 2.2.2

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1.860 windows-release 5.1.1

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1.861 degenerator 4.0.4

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degenerator
==========
Compiles sync functions into async functions

Sometimes you need to write sync looking code that's really async under the hood.
This module takes a String to one or more synchronous JavaScript functions, and
returns a new String that with those JS functions transpiled into `async`
functions.

So this:

```js
function foo() {
 return a('bar') || b();
}
```

Gets compiled into:

```js
async function foo() {
  return await a('bar') || await b();
}
```

With the compiled output code, you can evaluate the code using the `vm` module
in Node.js, or save the code to a file and require it, or whatever.

Example

You must explicitly specify the names of the functions that should be
"asyncified". So say we wanted to expose a `get(url)` function that did
and HTTP request and returned the response body.

The user has provided us with this implementation:

``` js
function myFn() {
 const one
 = get('https://google.com');
 const two = get('http://nodejs.org');
 const three = JSON.parse(get('http://jsonip.org'));
 return [one, two, three];
}
```

Now we can compile this into an asyncronous function, implement the
async `get()` function, and finally evaluate it into a real JavaScript function
instance with the `vm` module:

```typescript
import vm from 'vm';
import { degenerator } from 'degenerator';

// The `get()` function is Promise-based (error handling omitted for brevity)
function get(endpoint: string) {
 return new Promise((resolve, reject) => {
   var mod = 0 == endpoint.indexOf('https:') ? require('https') : require('http');
   var req = mod.get(endpoint);
   req.on('response', function (res) {
     var data = '';
     res.setEncoding('utf8');
     res.on('data', function (b) { data += b; });
     res.on('end', function () {
       resolve(data);
     });
   });
 });
}

// Convert the JavaScript string provided from the user (assumed to be `str` var)
str
 = degenerator(str, [ 'get' ]);

// Turn the JS String into a real async function instance
const asyncFn = vm.runInNewContext(`(${str})`, { get });

// Now we can invoke the function asynchronously
asyncFn().then((res) => {
 // Do something with `res`...
});
```

API
---

degenerator(code: string, names: Array<string|RegExp>): String

Returns a "degeneratorified" JavaScript string, with `async`/`await` transplanted.

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1.862 eslint-plugin-jest-extended 2.0.0

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1.864 istanbul-lib-report 3.0.1

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1.865 eslint-plugin-unicorn 45.0.2

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1.868 run-async 3.0.0

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1.870 jsx-ast-utils 3.3.5

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1.873 @babel/preset-modules 0.1.6-no-external-plugins

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1.874 regenerator-transform 0.15.2

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1.875 gopkg.in-yaml 3.0.1

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1.876 gopkg.in-ini 1.67.0

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1.877 go-toml 2.0.9

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1.878 eslint-visitor-keys 3.4.3

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1.880 tslib 2.6.2

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1.884 asynciterator.prototype 1.0.0

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1.885 which-builtin-type 1.1.3

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1.889 function.prototype.name 1.1.6

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1.892 object.groupby 1.0.1

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1.893 @react-native/virtualized-lists 0.72.8

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* /opt/cola/permits/1783019999_1693457823.4832957/0/virtualized-lists-0-72-8-tgz/package/Lists/FillRateHelper.js
* /opt/cola/permits/1783019999_1693457823.4832957/0/virtualized-lists-0-72-8-tgz/package/Lists/VirtualizedList.js
* /opt/cola/permits/1783019999_1693457823.4832957/0/virtualized-lists-0-72-8-tgz/package/Lists/ViewabilityHelper.js
* /opt/cola/permits/1783019999_1693457823.4832957/0/virtualized-lists-0-72-8-tgz/package/Lists/VirtualizedListCellRenderer.js
* /opt/cola/permits/1783019999_1693457823.4832957/0/virtualized-lists-0-72-8-tgz/package/Lists/VirtualizedSectionList.js
*
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1.894 @jest/schemas 29.6.3

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1.895 jest-types 29.6.3

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1.896 metro-runtime 0.76.8

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* @polyfill
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1.897 metro-source-map 0.76.8

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* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/Consumer/constants.js
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*
/opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/Consumer/index.js
* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/BundleBuilder.js
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* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/BundleBuilder.js.flow
* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/B64Builder.js.flow
* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/generateFunctionMap.js.flow
* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/composeSourceMaps.js.flow
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* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/Consumer/positionMath.js.flow
* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/Consumer/types.flow.js.flow
* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/source-map.js.flow
* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/Consumer/createConsumer.js.flow
* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/Consumer/AbstractConsumer.js.flow
*
/opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/Consumer/SectionsConsumer.js.flow
* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/Consumer/search.js.flow
* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/Consumer/constants.js.flow
* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/Generator.js.flow
* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/Consumer/index.js.flow
* /opt/cola/permits/1783020294_1693457888.7365582/0/metro-source-map-0-76-8-tgz/package/src/Consumer/DelegatingConsumer.js.flow
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*
* Based on the Base 64 VLQ implementation in Closure Compiler:
* https://git.io/vymuA
*
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/* eslint-disable no-bitwise */

'use strict';

// A map of values to characters for the b64 encoding
const CHAR_MAP = [
 0x41, 0x42, 0x43, 0x44, 0x45, 0x46, 0x47, 0x48, 0x49, 0x4a, 0x4b, 0x4c, 0x4d,
 0x4e, 0x4f, 0x50, 0x51, 0x52, 0x53, 0x54, 0x55, 0x56, 0x57, 0x58, 0x59, 0x5a,
 0x61, 0x62, 0x63, 0x64, 0x65, 0x66, 0x67, 0x68, 0x69, 0x6a, 0x6b, 0x6c, 0x6d,
 0x6e, 0x6f, 0x70, 0x71, 0x72, 0x73, 0x74, 0x75, 0x76, 0x77, 0x78, 0x79, 0x7a,
 0x30, 0x31, 0x32, 0x33, 0x34, 0x35, 0x36, 0x37, 0x38, 0x39, 0x2b, 0x2f,
];

// A single base 64 digit can contain 6 bits of data. For the base 64 variable
// length quantities we use in the source map spec, the first bit is the sign,
// the next four bits are the actual value, and the 6th bit is the
// continuation bit. The continuation bit tells us whether there are more
// digits in
 this value following this digit.
//
```

```
//   Continuation
//   |    Sign
//   |    |
//   V    V
//   101011

const VLQ_BASE_SHIFT = 5;

// binary: 100000
const VLQ_BASE = 1 << VLQ_BASE_SHIFT;

// binary: 011111
const VLQ_BASE_MASK = VLQ_BASE - 1;

// binary: 100000
const VLQ_CONTINUATION_BIT = VLQ_BASE;

/**
* Converts from a two-complement value to a value where the sign bit is
* placed in the least significant bit.  For example, as decimals:
*   1 becomes 2 (10 binary), -1 becomes 3 (11 binary)
*   2 becomes 4 (100 binary), -2 becomes 5 (101 binary)
*/
function toVLQSigned(value: number) {
 return value < 0 ? (-value << 1) + 1 : (value << 1) + 0;
}

/**
* Encodes a number to base64 VLQ format and appends it to the passed-in buffer
*
* DON'T USE COMPOUND OPERATORS (eg `>>>=`) ON `let`-DECLARED VARIABLES!
* V8 WILL DEOPTIMIZE THIS FUNCTION AND MAP CREATION WILL BE 25% SLOWER!
*
* DON'T ADD MORE COMMENTS TO THIS FUNCTION TO KEEP ITS LENGTH SHORT ENOUGH FOR
* V8 OPTIMIZATION!
 */
function encode(value: number, buffer: Buffer, position: number): number {
 let vlq = toVLQSigned(value);
 let digit;
 do {
   digit = vlq & VLQ_BASE_MASK;
   vlq = vlq >>> VLQ_BASE_SHIFT;
   if (vlq > 0) {
     // There are still more digits in this value, so we must make sure the
     // continuation bit is marked.
     digit = digit | VLQ_CONTINUATION_BIT;
   }
   buffer[position++] = CHAR_MAP[digit];
```

```
 } while (vlq > 0);

 return position;
}

module.exports = encode;
```

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1.898 metro-symbolicate 0.76.8

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* /opt/cola/permits/1783020337_1693457825.3818672/0/metro-symbolicate-0-76-8-tgz/package/src/SourceMetadataMapConsumer.js.flow
* /opt/cola/permits/1783020337_1693457825.3818672/0/metro-symbolicate-0-76-8-tgz/package/src/GoogleIgnoreListConsumer.js.flow
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* /opt/cola/permits/1783020337_1693457825.3818672/0/metro-symbolicate-0-76-8-tgz/package/src/symbolicate.js.flow
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tgz/package/src/GoogleIgnoreListConsumer.js
* /opt/cola/permits/1783020337_1693457825.3818672/0/metro-symbolicate-0-76-8-tgz/package/src/Symbolication.js
* /opt/cola/permits/1783020337_1693457825.3818672/0/metro-symbolicate-0-76-8-tgz/package/src/SourceMetadataMapConsumer.js
* /opt/cola/permits/1783020337_1693457825.3818672/0/metro-symbolicate-0-76-8-tgz/package/src/ChromeHeapSnapshot.js
* /opt/cola/permits/1783020337_1693457825.3818672/0/metro-symbolicate-0-76-8-tgz/package/src/symbolicate.js
* /opt/cola/permits/1783020337_1693457825.3818672/0/metro-symbolicate-0-76-8-tgz/package/src/index.js

1.899 ob1 0.76.8

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* /opt/cola/permits/1783020301_1693457861.3935297/0/ob1-0-76-8-tgz/package/src/ob1.js
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* /opt/cola/permits/1783020301_1693457861.3935297/0/ob1-0-76-8-tgz/package/src/__flowtests__/ob1-flowtest.js.flow
* /opt/cola/permits/1783020301_1693457861.3935297/0/ob1-0-76-8-tgz/package/src/ob1.js.flow

1.900 jest-get-type 29.6.3

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1.901 reflect.getprototypeof 1.0.4

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1.902 array.prototype.findlastindex 1.2.3

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1.903 babel-plugin-jest-hoist 29.6.3

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1.905 array-includes 3.1.7

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1.906 string-prototype-trimstart 1.0.7

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1.907 diff-sequences 29.6.3

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1.908 jest-regex-util 29.6.3

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1.909 babel-register 7.22.15

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1.910 babel-helper-create-regexp-features-plugin 7.22.15

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1.911 @babel/helper-builder-binary-assignment-operator-visitor 7.22.15

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1.912 jest-source-map 29.6.3

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1.913 arraybuffer.prototype.slice 1.0.2

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1.914 array prototype flat 1.3.2

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1.915 safe-array-concat 1.0.1

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1.916 string-prototype-trim 1.2.8

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1.917 array.prototype.tosorted 1.1.2

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1.918 string-prototype-trimend 1.0.7

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1.919 socks-proxy-agent 8.0.2

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socks-proxy-agent
==========
A SOCKS proxy `http.Agent` implementation for HTTP and HTTPS

This module provides an `http.Agent` implementation that connects to a specified SOCKS proxy server, and can be used with the built-in `http` and `https` modules.

It can also be used in conjunction with the `ws` module to establish a WebSocket connection over a SOCKS proxy. See the "Examples" section below.

Examples

```ts
import https from 'https';
import { SocksProxyAgent } from 'socks-proxy-agent';

const agent = new SocksProxyAgent(
 'socks://your-name%40gmail.com:abcdef12345124@br41.nordvpn.com'
);

https.get('https://ipinfo.io', { agent }, (res) => {
 console.log(res.headers);
 res.pipe(process.stdout);
});
```

`ws` WebSocket connection example

```ts
import WebSocket from 'ws';
import { SocksProxyAgent } from 'socks-proxy-agent';

const agent = new SocksProxyAgent(
 'socks://your-name%40gmail.com:abcdef12345124@br41.nordvpn.com'
);

var
 socket = new WebSocket('ws://echo.websocket.events', { agent });

socket.on('open', function () {
 console.log('"open" event!');
 socket.send('hello world');
});

socket.on('message', function (data, flags) {
 console.log('"message" event! %j %j', data, flags);
 socket.close();
});
```

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Found in path(s):
* /opt/cola/permits/1793110945_1694485469.8500926/0/socks-proxy-agent-8-0-2-tgz/package/README.md

1.920 @babel/plugin-syntax-class-properties 7.12.13

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1.921 @babel/plugin-syntax-async-generators 7.8.4

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1.922 @aashutoshrathi/word-wrap 1.2.6

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1.923 @humanwhocodes/module-importer 1.0.1

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1.924 @eslint-community/eslint-utils 4.4.0

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1.925 @babel/plugin-syntax-optional-catch-binding 7.8.3

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1.926 @babel/plugin-syntax-numeric-separator 7.10.4

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1.927 @babel/plugin-syntax-bigint 7.8.3

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1.928 @babel/plugin-syntax-logical-assignment-operators 7.10.4

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1.929 @babel/plugin-syntax-json-strings 7.8.3

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1.931 @babel/plugin-syntax-object-rest-spread 7.8.3

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1.932 @babel/plugin-syntax-private-property-in-object 7.14.5

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1.933 @babel/plugin-proposal-class-properties 7.18.6

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1.934 @babel/plugin-proposal-numeric-separator 7.18.6

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1.935 @babel/plugin-syntax-class-static-block 7.14.5

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1.936 @babel/regjsgen 0.8.0

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1.937 @babel/helper-optimise-call-expression 7.22.5

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1.938 @babel/helper-skip-transparent-expression-wrappers 7.22.5

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1.939 @babel/plugin-proposal-private-property-in-object 7.21.0-placeholder-for-preset-env.2

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1.940 @babel/helper-annotate-as-pure 7.22.5

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1.941 @babel/plugin-transform-named-capturing-groups-regex 7.22.5

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1.942 @babel/plugin-syntax-unicode-sets-regex 7.18.6

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1.943 @jridgewell/source-map 0.3.5

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1.944 @jest/schemas 28.1.3

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1.945 whatwg-fetch 3.6.19

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1.946 @babel/plugin-transform-react-jsx-development 7.22.5

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1.947 regexp-prototype-flags 1.5.1

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1.948 define-properties 1.2.1

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1.949 jest-changed-files 29.7.0

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1.950 jest-config 29.7.0

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* /opt/cola/permits/1801892757_1694800147.7613719/0/codegen-0-72-7-tgz/package/lib/parsers/typescript/components/componentsUtils.js
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* /opt/cola/permits/1801892757_1694800147.7613719/0/codegen-0-72-7-tgz/package/lib/cli/generators/generate-all.js.flow

1.988 @jest/create-cache-key-function 29.7.0

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1.989 flatted 3.2.9

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1.990 es-iterator-helpers 1.0.15

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1.991 iterator.prototype 1.1.2

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1.992 metro-cache-key 0.76.8

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1.993 @babel/helper-remap-async-to-generator 7.22.20

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1.994 @react-native-community/cli-server-api 11.3.7

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1.995 metro-transform-worker 0.76.8

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1.996 @react-native-community/cli-plugin-metro 11.3.7

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1.997 react-native 0.72.5

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1.998 metro-file-map 0.76.8

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*
* @format
* @flow strict
*/

Found in path(s):
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-
tgz/package/src/crawlers/watchman/planQuery.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-
tgz/package/src/lib/fast_path.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-
tgz/package/src/lib/getPlatformExtension.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-
tgz/package/src/lib/dependencyExtractor.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-
tgz/package/src/getMockName.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-
tgz/package/src/lib/normalizePathSep.js.flow
*
/opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-
tgz/package/src/lib/checkWatchmanCapabilities.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-
tgz/package/src/workerExclusionList.js.flow
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* @format
* @oncall react_native
*/

Found in path(s):
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/cache/DiskCacheManager.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/watchman/index.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/watchers/NodeWatcher.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/flow-types.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/node/index.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/lib/DuplicateHasteCandidatesError.js.flow
*
 /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/node/hasNativeFindSupport.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/lib/rootRelativeCacheKeys.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/watchers/common.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/ModuleMap.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/index.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/watchers/WatchmanWatcher.js.flow
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*/

Found in path(s):
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/constants.js.flow

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* @noformat - Flow comment syntax
*/
```

Found in path(s):
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* @oncall react_native
*/
```

Found in path(s):
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/Watcher.d.ts
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/cache/DiskCacheManager.d.ts
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/lib/DuplicateHasteCandidatesError.d.ts
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/flow-types.d.ts
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/index.d.ts
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/ModuleMap.d.ts
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*
* @format
* @oncall react_native
*/
```

Found in path(s):
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/watchers/WatchmanWatcher.js
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/ModuleMap.js
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/node/hasNativeFindSupport.js
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/index.js
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/watchers/NodeWatcher.js
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/lib/DuplicateHasteCandidatesError.js
*
/opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/flow-types.js
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/__fixtures__/foo.js
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/cache/DiskCacheManager.js
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/__fixtures__/ignored/hidden.js
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/__fixtures__/link-to-directory/bar.js
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/node/index.js
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/lib/rootRelativeCacheKeys.js
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/watchers/common.js
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/__fixtures__/directory/bar.js
*
/opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/__fixtures__/link-to-foo.js
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/watchman/index.js
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/watchers/RecrawlWarning.js
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*/
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* @format
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Found in path(s):
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/watchers/RecrawlWarning.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/__fixtures__/directory/bar.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/__fixtures__/link-to-directory/bar.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/__fixtures__/ignored/hidden.js.flow
* /opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/__fixtures__/link-to-foo.js.flow
*
/opt/cola/permits/1811675864_1696259756.4623094/0/metro-file-map-0-76-8-tgz/package/src/crawlers/__fixtures__/foo.js.flow

1.999 @react-native-community/cli-platform-android 11.3.7

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1.1000 metro-minify-terser 0.76.8

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* /opt/cola/permits/1811675903_1696259769.1490047/0/metro-minify-terser-0-76-8-tgz/package/src/index.js
* /opt/cola/permits/1811675903_1696259769.1490047/0/metro-minify-terser-0-76-8-tgz/package/src/minifier.js
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Found in path(s):
* /opt/cola/permits/1811675903_1696259769.1490047/0/metro-minify-terser-0-76-8-tgz/package/src/minifier.js.flow
* /opt/cola/permits/1811675903_1696259769.1490047/0/metro-minify-terser-0-76-8-tgz/package/src/index.js.flow

1.1001 @babel/helper-member-expression-to-functions 7.23.0

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1.1002 metro-transform-plugins 0.76.8

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* /opt/cola/permits/1811675856_1696259797.4011512/0/metro-transform-plugins-0-76-8-tgz/package/src/constant-folding-plugin.js.flow
* /opt/cola/permits/1811675856_1696259797.4011512/0/metro-transform-plugins-0-76-8-tgz/package/src/inline-plugin.js.flow
* /opt/cola/permits/1811675856_1696259797.4011512/0/metro-transform-plugins-0-76-8-tgz/package/src/utils/createInlinePlatformChecks.js.flow
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*/

Found in path(s):
* /opt/cola/permits/1811675856_1696259797.4011512/0/metro-transform-plugins-0-76-8-tgz/package/src/inline-plugin.js
* /opt/cola/permits/1811675856_1696259797.4011512/0/metro-transform-plugins-0-76-8-tgz/package/src/import-export-plugin.js
* /opt/cola/permits/1811675856_1696259797.4011512/0/metro-transform-plugins-0-76-8-tgz/package/src/index.js
* /opt/cola/permits/1811675856_1696259797.4011512/0/metro-transform-plugins-0-76-8-tgz/package/src/normalizePseudoGlobals.js
* /opt/cola/permits/1811675856_1696259797.4011512/0/metro-transform-plugins-0-76-8-tgz/package/src/utils/createInlinePlatformChecks.js
* /opt/cola/permits/1811675856_1696259797.4011512/0/metro-transform-plugins-0-76-8-tgz/package/src/addParamsToDefineCall.js
*
/opt/cola/permits/1811675856_1696259797.4011512/0/metro-transform-plugins-0-76-8-tgz/package/src/constant-folding-plugin.js
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* /opt/cola/permits/1811675856_1696259797.4011512/0/metro-transform-plugins-0-76-8-tgz/package/src/import-export-plugin.js.flow
* /opt/cola/permits/1811675856_1696259797.4011512/0/metro-transform-plugins-0-76-8-tgz/package/src/normalizePseudoGlobals.js.flow
* /opt/cola/permits/1811675856_1696259797.4011512/0/metro-transform-plugins-0-76-8-tgz/package/src/addParamsToDefineCall.js.flow
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1.1003 @babel/helper-wrap-function 7.22.20

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1.1004 @babel/helper-replace-supers 7.22.20

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1.1005 metro-cache 0.76.8

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Found in path(s):
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/stores/HttpGetStore.js.flow
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* @oncall react_native
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Found in path(s):
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/stableHash.js.flow
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/index.js.flow
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* @format
* @oncall react_native
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Found in path(s):
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/types.flow.js.flow
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* @format
* @oncall react_native
*/
```

Found in path(s):

* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/types.flow.js
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/stableHash.js
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/index.js
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/Cache.js
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Found in path(s):
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-
tgz/package/src/stores/HttpError.js.flow
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-
tgz/package/src/stores/NetworkError.js.flow
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Found in path(s):
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-
tgz/package/src/stores/AutoCleanFileStore.d.ts
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/stores/HttpStore.d.ts
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/index.d.ts
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-
tgz/package/src/stores/HttpGetStore.d.ts
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/Cache.d.ts
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/stores/FileStore.d.ts
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/types.d.ts
*
/opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/stableHash.d.ts
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* @format
*
*/

Found in path(s):
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/stores/FileStore.js
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/stores/HttpError.js
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/stores/NetworkError.js
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/stores/HttpStore.js
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-
tgz/package/src/stores/AutoCleanFileStore.js
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/stores/HttpGetStore.js
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Found in path(s):
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-
tgz/package/src/stores/AutoCleanFileStore.js.flow
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/stores/FileStore.js.flow
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-
tgz/package/src/stores/HttpStore.js.flow
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* @flow
* @format
* @oncall react_native
*/

Found in path(s):
* /opt/cola/permits/1811675634_1696259777.958305/0/metro-cache-0-76-8-tgz/package/src/Cache.js.flow

1.1006 metro 0.76.8

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* @flow strict-local
* @format
* @oncall react_native
*/

Found in path(s):
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/getExplodedSourceMap.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/contextModule.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/parseCustomTransformOptions.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/helpers/getInlineSourceMappingURL.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/output/RamBundle/buildSourcemapWithMetadata.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/relativizeSourceMap.js.flow
*
 /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/cli/parseKeyValueParamArray.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Graph.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/helpers/getTransitiveDependencies.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/sourceMapObject.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/contextModuleTemplates.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/parseCustomResolverOptions.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/getGraphId.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/getPrependedScripts.js.flow
*

/opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/lib/debounceAsyncQueue.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/Server/symbolicate.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/shared/output/RamBundle/util.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/DeltaBundler/Serializers/helpers/getSourceMapInfo.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/DeltaBundler/Serializers/getAllFiles.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/transformHelpers.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/cli.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/lib/parseOptionsFromUrl.js.flow
*
/opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/DeltaBundler/Serializers/sourceMapGenerator.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/DeltaBundler/types.flow.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/CountingSet.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/shared/output/unbundle.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/bundleToString.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/shared/output/RamBundle.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/DeltaBundler/Serializers/hmrJSBundle.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/DeltaBundler/DeltaCalculator.js.flow
*
/opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/DeltaBundler/Serializers/sourceMapString.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/DeltaBundler/mergeDeltas.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/types.flow.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/shared/output/RamBundle/write-sourcemap.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/countLines.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/DeltaBundler/Serializers/getAssets.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-
haste/DependencyGraph/createHasteMap.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/lib/splitBundleOptions.js.flow
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Found in path(s):
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/ModuleGraph/worker/generateImportNames.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-context/utils.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/HmrServer.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/TestBigInt.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/ModuleGraph/worker/JsFileWrapping.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/formatBundlingError.js.flow
*
 /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/ModuleGraph/worker/collectDependencies.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/logToConsole.js.flow
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* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/TypeScript.ts
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* @format
* @oncall react_native
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Found in path(s):
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/output/RamBundle/as-indexed-file.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/TerminalReporter.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/getRamBundleInfo.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/output/writeFile.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/IncrementalBundler/GraphNotFoundError.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/Server.js.flow
*
 /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/commands/serve.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-haste/DependencyGraph.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-haste/DependencyGraph/ModuleResolution.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/IncrementalBundler.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/getTransformCacheKey.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/cli-utils.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/JsonReporter.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/output/bundle.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/reporting.js.flow
*
 /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/helpers/js.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/IncrementalBundler/ResourceNotFoundError.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/index.flow.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/WorkerFarm.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/getAppendScripts.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/BatchProcessor.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-haste/ModuleCache.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/IncrementalBundler/RevisionNotFoundError.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/commands/build.js.flow
*
 /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/commands/dependencies.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Worker.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/Bundler/util.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/createWebsocketServer.js.flow

* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Transformer.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/helpers/processModules.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/baseJSBundle.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/output/bundle.flow.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-haste/Module.js.flow
*
 /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Worker.flow.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/Bundler.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/output/RamBundle/as-assets.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/execBundle.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/Assets.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/index.js.flow
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* @flow strict
* @format
* @oncall react_native
*/

Found in path(s):
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/createModuleIdFactory.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/output/RamBundle/magic-number.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/Server/MultipartResponse.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/output/meta.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-haste/Package.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-haste/lib/AssetPaths.js.flow
*
 /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/getPreludeCode.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/getMaxWorkers.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-haste/lib/parsePlatformFilePath.js.flow

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* @format
* @flow strict-local
*/

throw new Error('This module cannot be evaluated.');
```

Found in path(s):
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-resolveWeak/subdir/throwing-module.js.flow
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* @flow strict-local
* @format
*/
```

Found in path(s):
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/loadBundleAsyncForTest.js.flow
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* @format
* @flow strict
*/
```

Found in path(s):
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/ErrorBundle.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-

tgz/package/src/integration_tests/basic_bundle/require-context/subdir/nested/d.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/lib/RamBundleParser.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/require-context/subdir/b.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/import-export/export-4.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/import-export/export-primitive-default.js.flow
*
/opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/import-export/export-3.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/import-export/export-5.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/import-export/index.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/import-export/export-1.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/import-export/export-null.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/require-context/subdir/a.js.flow
*
/opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/import-export/export-6.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/require-context/subdir/c.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/import-export/export-2.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/Foo.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/require-context/subdir-conflict/index.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/Bar.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/TestPolyfill.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/TestBundle.js.flow
*
/opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/AssetRegistry.js.flow
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* @format
*
*/

Found in path(s):
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/ModuleGraph/worker/JsFileWrapping.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-context/subdir/c.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/import-export/export-3.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-context/subdir/a.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-context/subdir-conflict/index.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-resolveWeak/import-and-resolveWeak.js
*
 /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/logToConsole.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/import-export/export-6.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/TestBigInt.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-resolveWeak/never-required.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-resolveWeak/subdir/counter-module.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/Bar.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-context/matching.js
*
 /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-context/empty.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-context/subdir/nested/d.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/HmrServer.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/ModuleGraph/worker/generateImportNames.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/import-export/export-2.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/ModuleGraph/worker/collectDependencies.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-resolveWeak/multiple.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-

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* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
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* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
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* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
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* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
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* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/AssetRegistry.js
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*
/opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/require-context/mode-sync.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/import-export/export-null.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/TestBundle.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/require-resolveWeak/require-and-resolveWeak.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/require-context/utils.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/RamBundleParser.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/import-export/export-primitive-default.js
*
/opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/TestPolyfill.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/Foo.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/ErrorBundle.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/require-context/mode-lazy-once.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/require-context/mode-lazy.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/import-export/export-5.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/require-context/subdir/b.js
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*/

Found in path(s):
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/loadBundleAsyncForTest.js
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* @format
* @flow strict-local
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* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-resolveWeak/require-and-resolveWeak.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-context/empty.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-context/mode-sync.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-context/mode-lazy.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-resolveWeak/import-and-resolveWeak.js.flow
*
 /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-context/matching.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-context/mode-lazy-once.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-resolveWeak/never-required.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-resolveWeak/subdir/counter-module.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-resolveWeak/multiple.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-context/mode-eager.js.flow
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-

tgz/package/src/integration_tests/basic_bundle/require-context/conflict.js.flow
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* @format
* @oncall react_native
*/
```

Found in path(s):
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/DeltaCalculator.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/TerminalReporter.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/commands/serve.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/commands/dependencies.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/BatchProcessor.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/createModuleIdFactory.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/getGraphId.js
*
 /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/getPrependedScripts.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/execBundle.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-haste/DependencyGraph/ModuleResolution.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/sourceMapObject.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/IncrementalBundler/ResourceNotFoundError.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/getAllFiles.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/relativizeSourceMap.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/JsonReporter.js
*
 /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/parseCustomTransformOptions.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/helpers/getSourceMapInfo.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/output/unbundle.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/createWebsocketServer.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/output/bundle.js

* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/output/writeFile.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/cli/parseKeyValueParamArray.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/cli.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-haste/Module.js
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/opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/contextModuleTemplates.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/parseCustomResolverOptions.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Worker.flow.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/reporting.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/Assets.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/baseJSBundle.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-haste/ModuleCache.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/WorkerFarm.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/helpers/processModules.js
*
/opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Graph.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/getAssets.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/helpers/js.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/getAppendScripts.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/output/RamBundle/write-sourcemap.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/hmrJSBundle.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/getPreludeCode.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Serializers/sourceMapString.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/IncrementalBundler.js
*
/opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/IncrementalBundler/GraphNotFoundError.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-haste/lib/parsePlatformFilePath.js
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* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/mergeDeltas.js
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* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/output/meta.js
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* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
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* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/DeltaBundler/Serializers/sourceMapGenerator.js
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* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/types.flow.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
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* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/Server/symbolicate.js
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* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-
haste/DependencyGraph/createHasteMap.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/shared/output/RamBundle/magic-number.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/output/bundle.flow.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-haste/Package.js
*
 /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-
haste/DependencyGraph.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/debounceAsyncQueue.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/parseOptionsFromUrl.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/index.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-

tgz/package/src/shared/output/RamBundle/as-indexed-file.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/DeltaBundler/Serializers/getRamBundleInfo.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/Server.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/DeltaBundler/Serializers/helpers/getTransitiveDependencies.js
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Found in path(s):
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/ModuleGraph/worker/collectDependencies.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Worker.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/Graph.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/IncrementalBundler.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/CountingSet.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/metro.config.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/contextModule.d.ts
*
/opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/Server/MultipartResponse.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/getGraphId.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/Server.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/reporting.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/DeltaBundler/__fixtures__/hasteImpl.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/node-
haste/DependencyGraph.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/ModuleGraph/test-helpers.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/DeltaBundler/Serializers/getRamBundleInfo.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/lib/TerminalReporter.d.ts
*
/opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler/types.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/types.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-
tgz/package/src/integration_tests/basic_bundle/polyfill.js
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/shared/output/bundle.d.ts

* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/Bundler.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/DeltaBundler.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/Asset.d.ts
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/index.d.ts
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* @format
* @flow
*/

export type RequireWithResolveWeak = {
 (id: string | number): any,
 resolveWeak: (id: string) => string | number,
};
```

Found in path(s):
* /opt/cola/permits/1811675649_1696259785.4641895/0/metro-0-76-8-tgz/package/src/integration_tests/basic_bundle/require-resolveWeak/utils.js.flow

1.1007 @react-native-community/cli-hermes 11.3.7

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1.1008 @react-native-community/cli-doctor 11.3.7

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1.1009 dayjs 1.11.10

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1.1010 metro-minify-uglify 0.76.8

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* /opt/cola/permits/1811675685_1696259799.3440807/0/metro-minify-uglify-0-76-8-tgz/package/src/minifier.js
* /opt/cola/permits/1811675685_1696259799.3440807/0/metro-minify-uglify-0-76-8-tgz/package/src/index.js
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Found in path(s):

* /opt/cola/permits/1811675685_1696259799.3440807/0/metro-minify-uglify-0-76-8-tgz/package/src/index.js.flow
* /opt/cola/permits/1811675685_1696259799.3440807/0/metro-minify-uglify-0-76-8-tgz/package/src/minifier.js.flow

1.1011 @react-native-community/cli-config 11.3.7

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1.1012 @react-native-community/cli-debugger-ui 11.3.7

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1.1013 metro-core 0.76.8

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* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-tgz/package/src/index.d.ts
* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-tgz/package/src/Terminal.d.ts
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Found in path(s):
* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-

tgz/package/src/errors/AmbiguousModuleResolutionError.js
* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-tgz/package/src/Logger.js
* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-tgz/package/src/Terminal.js
* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-tgz/package/src/index.js
* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-tgz/package/src/errors.js
* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-
tgz/package/src/errors/PackageResolutionError.js
* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-tgz/package/src/canonicalize.js
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* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-tgz/package/src/Terminal.js.flow
* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-tgz/package/src/index.js.flow
* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-
tgz/package/src/errors/AmbiguousModuleResolutionError.js.flow
* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-tgz/package/src/Logger.js.flow
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Found in path(s):
* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-tgz/package/src/errors.js.flow
* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-
tgz/package/src/errors/PackageResolutionError.js.flow
* /opt/cola/permits/1811675642_1696259822.3592656/0/metro-core-0-76-8-tgz/package/src/canonicalize.js.flow

1.1014 @react-native-community/cli-tools 11.3.7

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1.1015 metro-react-native-babel-transformer 0.76.8

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* /opt/cola/permits/1811675739_1696259775.9890242/0/metro-react-native-babel-transformer-0-76-8-tgz/package/src/index.js
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* /opt/cola/permits/1811675739_1696259775.9890242/0/metro-react-native-babel-transformer-0-76-8-tgz/package/src/index.js.flow

1.1016 @react-native-community/cli-platform-ios 11.3.7

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1.1017 metro-babel-transformer 0.76.8

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```

Found in path(s):
* /opt/cola/permits/1811675884_1696259835.692819/0/metro-babel-transformer-0-76-8-tgz/package/src/index.d.ts
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* @format
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Found in path(s):

* /opt/cola/permits/1811675884_1696259835.692819/0/metro-babel-transformer-0-76-8-tgz/package/src/index.js.flow

1.1018 metro-inspector-proxy 0.76.8

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* /opt/cola/permits/1811675882_1696259789.3034985/0/metro-inspector-proxy-0-76-8-tgz/package/src/index.js
* /opt/cola/permits/1811675882_1696259789.3034985/0/metro-inspector-proxy-0-76-8-tgz/package/src/types.js
* /opt/cola/permits/1811675882_1696259789.3034985/0/metro-inspector-proxy-0-76-8-tgz/package/src/InspectorProxy.js
* /opt/cola/permits/1811675882_1696259789.3034985/0/metro-inspector-proxy-0-76-8-tgz/package/src/cli.js
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// more details.

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Found in path(s):
* /opt/cola/permits/1811675882_1696259789.3034985/0/metro-inspector-proxy-0-76-8-tgz/package/src/index.js.flow
* /opt/cola/permits/1811675882_1696259789.3034985/0/metro-inspector-proxy-0-76-8-tgz/package/src/InspectorProxy.js.flow
* /opt/cola/permits/1811675882_1696259789.3034985/0/metro-inspector-proxy-0-76-8-tgz/package/src/cli.js.flow
* /opt/cola/permits/1811675882_1696259789.3034985/0/metro-inspector-proxy-0-76-8-tgz/package/src/types.js.flow

1.1019 metro-resolver 0.76.8

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* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/index.js.flow
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/createDefaultContext.js.flow
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* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/errors/InvalidPackageError.js.flow
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/errors/formatFileCandidates.js.flow
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/resolveAsset.js.flow
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/errors/FailedToResolvePathError.js.flow
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/errors/FailedToResolveNameError.js.flow
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/utils/toPosixPath.js.flow
*
 /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/errors/InvalidPackageConfigurationError.js.flow
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/errors/PackagePathNotExportedError.js.flow
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/utils/isAssetFile.js.flow
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/PackageResolve.js.flow
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/types.js.flow
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/PackageExportsResolve.js.flow
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* @oncall react_native
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tgz/package/src/errors/FailedToResolvePathError.js
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-
tgz/package/src/errors/InvalidPackageError.js
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/utils/isAssetFile.js
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/index.js
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-
tgz/package/src/errors/FailedToResolveNameError.js
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-
tgz/package/src/errors/formatFileCandidates.js
*
/opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/PackageResolve.js
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-
tgz/package/src/errors/InvalidPackageConfigurationError.js
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/resolve.js
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/utils/toPosixPath.js
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-
tgz/package/src/PackageExportsResolve.js
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-
tgz/package/src/errors/PackagePathNotExportedError.js
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/types.js
* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-
tgz/package/src/createDefaultContext.js

* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/resolveAsset.js
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* /opt/cola/permits/1811675846_1696259762.7003129/0/metro-resolver-0-76-8-tgz/package/src/index.d.ts

1.1020 @react-native-community/cli-types 11.3.7

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1.1021 @react-native-community/cli-clean 11.3.7

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1.1022 metro-config 0.76.8

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Found in path(s):
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* /opt/cola/permits/1811675758_1696259825.46981/0/metro-config-0-76-8-tgz/package/src/index.js
* /opt/cola/permits/1811675758_1696259825.46981/0/metro-config-0-76-8-tgz/package/src/defaults/index.js
* /opt/cola/permits/1811675758_1696259825.46981/0/metro-config-0-76-8-tgz/package/src/loadConfig.js
* /opt/cola/permits/1811675758_1696259825.46981/0/metro-config-0-76-8-tgz/package/src/defaults/defaults.js
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* /opt/cola/permits/1811675758_1696259825.46981/0/metro-config-0-76-8-tgz/package/src/index.d.ts

* /opt/cola/permits/1811675758_1696259825.46981/0/metro-config-0-76-8-tgz/package/src/defaults/index.d.ts
* /opt/cola/permits/1811675758_1696259825.46981/0/metro-config-0-76-8-tgz/package/src/configTypes.d.ts
* /opt/cola/permits/1811675758_1696259825.46981/0/metro-config-0-76-8-tgz/package/src/defaults/exclusionList.js
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* /opt/cola/permits/1811675758_1696259825.46981/0/metro-config-0-76-8-tgz/package/src/defaults/validConfig.js.flow
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* /opt/cola/permits/1811675758_1696259825.46981/0/metro-config-0-76-8-tgz/package/src/loadConfig.js.flow
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* /opt/cola/permits/1811675758_1696259825.46981/0/metro-config-0-76-8-tgz/package/src/defaults/defaults.js.flow

1.1023 @react-native-community/cli 11.3.7

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1.1024 get-uri 6.0.2

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1.1025 data-uri-to-buffer 6.0.1

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1.1026 ci-info 3.9.0

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1.1027 get-tsconfig 4.7.2

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1.1028 eslint-import-resolver-typescript 3.6.1

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1.1029 istanbul-lib-instrument 6.0.1

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1.1030 pure-rand 6.0.4

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1.1031 eslint-plugin-testing-library 5.11.1

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1.1032 mitchellh-mapstructure 1.5.0

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1.1033 cosmiconfig 8.3.6

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1.1034 fast-xml-parser 4.3.2

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1.1035 joi 17.11.0

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1.1036 babel-plugin-polyfill-regenerator 0.5.3

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1.1037 spdx-license-ids 3.0.16

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[Node.js](https://nodejs.org/) API

require('spdx-license-ids')

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All license IDs except for the currently deprecated ones.

```javascript
const ids = require('spdx-license-ids');
//=> ['0BSD', 'AAL', 'ADSL', 'AFL-1.1', 'AFL-1.2', 'AFL-2.0', 'AFL-2.1', 'AFL-3.0', 'AGPL-1.0-only', ...]

ids.includes('BSD-3-Clause'); //=> true
ids.includes('CC-BY-1.0');
 //=> true

ids.includes('GPL-3.0'); //=> false
```

require('spdx-license-ids/deprecated')

Type: `string[]`

Deprecated license IDs.

```javascript
const deprecatedIds = require('spdx-license-ids/deprecated');
//=> ['AGPL-1.0', 'AGPL-3.0', 'GFDL-1.1', 'GFDL-1.2', 'GFDL-1.3', 'GPL-1.0', 'GPL-2.0', ...]

deprecatedIds.includes('BSD-3-Clause'); //=> false
deprecatedIds.includes('CC-BY-1.0'); //=> false

deprecatedIds.includes('GPL-3.0'); //=> true
```

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1.1038 resolve 2.0.0-next.5

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1.1039 babel-plugin-polyfill-corejs2 0.4.6

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1.1040 globals 13.23.0

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1.1041 @babel/helper-define-polyfill-provider 0.4.3

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1.1043 ajv 6.12.6

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1.1046 node-fetch 2.7.0

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1.1049 define-data-property 1.1.1

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1.1050 https-proxy-agent 7.0.2

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https-proxy-agent
==========
An HTTP(s) proxy `http.Agent` implementation for HTTPS

This module provides an `http.Agent` implementation that connects to a specified
HTTP or HTTPS proxy server, and can be used with the built-in `https` module.

Specifically, this `Agent` implementation connects to an intermediary "proxy"
server and issues the [CONNECT HTTP method][CONNECT], which tells the proxy to
open a direct TCP connection to the destination server.

Since this agent implements the CONNECT HTTP method, it also works with other
protocols that use this method when connecting over proxies (i.e. WebSockets).
See the "Examples" section below for more.

Examples

`https` module example

```ts
import * as https from 'https';
import { HttpsProxyAgent } from 'https-proxy-agent';

const agent = new HttpsProxyAgent('http://168.63.76.32:3128');

https.get('https://example.com', { agent }, (res) => {
  console.log('"response" event!', res.headers);
 res.pipe(process.stdout);
});
```

`ws` WebSocket connection example

```ts
import WebSocket from 'ws';
import { HttpsProxyAgent } from 'https-proxy-agent';

const agent = new HttpsProxyAgent('http://168.63.76.32:3128');
const socket = new WebSocket('ws://echo.websocket.org', { agent });

socket.on('open', function () {
 console.log('"open" event!');
 socket.send('hello world');
});

socket.on('message', function (data, flags) {
 console.log('"message" event! %j %j', data, flags);
 socket.close();
});
```

API
---

new HttpsProxyAgent(proxy: string | URL, options?: HttpsProxyAgentOptions)

The `HttpsProxyAgent` class implements an `http.Agent` subclass that connects
to the specified "HTTP(s) proxy server" in order to proxy HTTPS and/or WebSocket
requests. This is achieved by using the [HTTP `CONNECT` method][CONNECT].

The `proxy` argument is the URL for the proxy server.

The `options` argument accepts the usual `http.Agent`
constructor options, and
some additional properties:

* `headers` - Object containing additional headers to send to the proxy server
in the `CONNECT` request.

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[CONNECT]: http://en.wikipedia.org/wiki/HTTP_tunnel#HTTP_CONNECT_Tunneling

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* /opt/cola/permits/1821511577_1697220460.2099142/0/https-proxy-agent-7-0-2-1-tgz/package/README.md

1.1051 eslint-config-prettier 8.10.0

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1.1054 conventional-changelog-conventionalcommits 6.1.0

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1.1059 which-typed-array 1.1.13

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1.1107 ee-first 1.1.1

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1.1124 @babel/helper-environment-visitor 7.22.20

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1.1125 @jridgewell/gen-mapping 0.3.3

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1.1126 @ampproject/remapping 2.2.1

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1.1127 @babel/helper-simple-access 7.22.5

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1.1128 @babel/helper-split-export-declaration 7.22.6

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1.1129 update-browserslist-db 1.0.13

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1.1130 babel-helper-compilation-targets 7.22.15

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1.1131 @jridgewell/resolve-uri 3.1.1

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1.1132 @jridgewell/sourcemap-codec 1.4.15

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1.1133 @babel/helper-function-name 7.23.0

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1.1134 convert-source-map 2.0.0

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1.1135 @babel/helper-module-imports 7.22.15

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1.1139 hapi-topo 5.1.0

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1.1142 hapi-hoek 9.3.0

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1.1143 @babel/plugin-syntax-export-namespace-from 7.8.3

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1.1144 @babel/plugin-syntax-dynamic-import 7.8.3

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1.1147 @babel/helper-plugin-utils 7.22.5

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1.1150 babel-plugin-polyfill-corejs3 0.8.6

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1.1154 mime-types 2.1.35

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1.1174 golang 1.21.4

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1.1175 istanbul-lib-coverage 3.2.2

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1.1176 types-json-schema 7.0.15

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1.1178 async 3.2.5

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1.1179 types-istanbul-reports 3.0.4

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1.1182 @types/minimist 1.2.5

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1.1183 @babel/plugin-syntax-jsx 7.23.3

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1.1184 @types/normalize-package-data 2.4.4

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1.1187 flat-cache 3.2.0

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1.1189 http2-wrapper 2.2.1

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1.1190 @babel/plugin-syntax-export-default-from 7.23.3

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1.1195 @babel/preset-flow 7.23.3

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1.1197 @babel/plugin-proposal-export-default-from 7.23.3

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1.1200 @babel/plugin-transform-react-jsx-source 7.23.3

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1.1201 ignore 5.3.0

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1.1202 @babel/helper-string-parser 7.23.4

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1.1204 typescript 5.3.2

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1.1205 @types/prop-types 15.7.11

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1.1206 eslint 8.54.0

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1.1208 v8-to-istanbul 9.2.0

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1.1209 @types/scheduler 0.16.8

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1.1210 cli-spinners 2.9.2

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1.1211 caniuse-lite 1.0.30001565

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1.1212 @babel/plugin-transform-private-property-in-object 7.23.4

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1.1217 big-integer 1.6.52

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1.1222 babel-plugin-transform-runtime 7.23.4

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1.1223 @babel/plugin-transform-logical-assignment-operators 7.23.4

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1.1224 @babel/plugin-bugfix-v8-spread-parameters-in-optional-chaining 7.23.3

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1.1233 fs-extra 11.2.0

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1.1234 @babel/plugin-transform-optional-chaining 7.23.4

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1.1241 core-js-compat 3.33.3

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1.1248 @babel/plugin-bugfix-v8-static-class-fields-redefine-readonly 7.23.3

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1.1278 boost 1.76.0

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1.1284 kotlin 1.3.60

1.1284.1 Available under license :

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{"version":3,"file":"kotlin.js","sources":["wrapper.js","arrayUtils.js","callableReferenceUtils.js","conversions.js","core.js","long.js","markerFunctions.js","misc.js","polyfills.js","rtti.js","arrayUtils.kt","runtime/Enum.kt","primitiveCompanionObjects.kt","generated/_Arrays.kt","generated/_Ranges.kt","kotlin/UByte.kt","kotlin/UInt.kt","kotlin/UShort.kt","Ranges.kt","collections/Collections.kt","collections/Maps.kt","collections/Sets.kt","text/StringNumberConversions.kt","kotlin/UnsignedUtils.kt","collections/Iterables.kt","collections/Sequences.kt","util/Preconditions.kt","ge

nerated/_ArraysJs.kt","comparisons/Comparisons.kt","kotlin/Comparator.kt","util/Standard.kt","generated/_ComparisonsJs.kt","generated/_Collections.kt","kotlin/collections.kt","collections/Iterators.kt","generated/_Comparisons.kt","generated/_Maps.kt","kotlin/ranges.kt","generated/_Sequences.kt","generated/_Sets.kt","generated/_Strings.kt","text/Strings.kt","kotlin/text/string.kt","kotlin/UByteArray.kt","kotlin/UIntArray.kt","kotlin/ULongArray.kt","kotlin/ULong.kt","kotlin/UShortArray.kt","generated/_UArrays.kt","generated/_UCollections.kt","generated/_UComparisons.kt","generated/_URanges.kt","generated/_USequences.kt","Collections.kt","Iterators.kt","ProgressionIterators.kt","Progressions.kt","Range.kt","Unit.kt","annotation/Annotations.kt","internal/InternalAnnotations.kt","internal/progressionUtil.kt","reflect/KParameter.kt","reflect/KType.kt","reflect/KVariance.kt","reflect/KVisibility.kt","kotlin/builtins.kt","kotlin/jsTypeOf.kt","kotlin/kotlin.kt","kotlin/coroutines/CoroutineImpl.kt","util/Result.kt","coroutines/Continuation.kt","kotlin/coroutines/intrinsics/IntrinsicsJs.kt","kotlin/currentBeMisc.kt","kotlin/jsOperators.kt","kotlin/math_js-v1.kt","kotlin/numbers_js-v1.kt","kotlin/text/numberConversions_js-v1.kt","generated/_CollectionsJs.kt","generated/_StringsJs.kt","generated/_UArraysJs.kt","jquery/ui.kt","kotlin/annotations.kt","kotlin/annotationsJVM.kt","kotlin/collections/AbstractMutableCollection.kt","kotlin/collections/AbstractMutableList.kt","kotlin/collections/AbstractMutableMap.kt","kotlin/collections/AbstractMutableSet.kt","kotlin/collections/ArrayList.kt","kotlin/collections/ArraySorting.kt","kotlin/collections/ArraysJs.kt","kotlin/collections/EqualityComparator.kt","kotlin/collections/HashMap.kt","kotlin/collections/HashSet.kt","kotlin/collections/InternalHashCodeMap.kt","kotlin/collections/InternalMap.kt","kotlin/collections/InternalStringMap.kt","kotlin/collections/LinkedHashMap.kt","kotlin/collections/LinkedHashSet.kt","kotlin/concurrent.kt","kotlin/console.kt","kotlin/coroutines/SafeContinuationJs.kt","kotlin/coroutines/js/internal/EmptyContinuation.kt","kotlin/date.kt","kotlin/dom/Builders.kt","kotlin/dom/Classes.kt","text/regex/RegexExtensions.kt","text/StringBuilder.kt","kotlin/dom/Dom.kt","kotlin/dom/EventListener.kt","kotlin/dom/ItemArrayLike.kt","kotlin/dom/Mutations.kt","kotlin/dynamic.kt","kotlin/exceptionUtils.kt","kotlin/exceptions.kt","kotlin/grouping.kt","collections/Grouping.kt","kotlin/js.math.kt","kotlin/json.kt","kotlin/math.kt","kotlin/numbers.kt","kotlin/promise.kt","kotlin/random/PlatformRandom.kt","kotlin/reflect/JsClass.kt","kotlin/reflect/KClassImpl.kt","kotlin/reflect/KTypeHelpers.kt","kotlin/reflect/KTypeImpl.kt","kotlin/reflect/KTypeParameterImpl.kt","kotlin/reflect/primitives.kt","kotlin/reflect/reflection.kt","kotlin/regexp.kt","kotlin/sequence.kt","kotlin/text/char.kt","kotlin/text/numberConversions.kt","kotlin/text/regex.kt","kotlin/text/stringsCode.kt","kotlin/text/text.kt","kotlin/text/utf8Encoding.kt","kotlin/time/DurationUnit.kt","kotlin/time/MonoClock.kt","kotlin/time/formatToDecimals.kt","org.w3c/org.khronos.webgl.kt","org.w3c/org.w3c.dom.clipboard.kt","org.w3c/org.w3c.dom.css.kt","org.w3c/org.w3c.dom.events.kt","org.w3c/org.w3c.dom.kt","org.w3c/org.w3c.fetch.kt","org.w3c/org.w3c.dom.mediacapture.kt","org.w3c/org.w3c.dom.pointerevents.kt","org.w3c/org.w3c.dom.svg.kt","org.w3c/org.w3c.files.kt","org.w3c/org.w3c.notifications.kt","org.w3c/org.w3c.workers.kt","org.w3c/org.w3c.xhr.kt","annotations/Experimental.kt","annotations/ExperimentalStdlibApi.kt","annotations/Inference.kt","annotations/Multiplatform.kt","collections/AbstractCollection.kt","collections/AbstractIterator.kt","collections/AbstractList.kt","collections/AbstractMap.kt","collections/AbstractSet.kt","collections/Arrays.kt","collections/IndexedValue.kt","collections/MapAccessors.kt","collections/MapWithDefault.kt","collections/MutableCollections.kt","collections/ReversedViews.kt","collections/SequenceBuilder.kt","collections/SlidingWindow.kt","collections/UArraySorting.kt","contracts/ContractBuilder.kt","coroutines/ContinuationInterceptor.kt","coroutines/CoroutineContext.kt","coroutines/CoroutineContextImpl.kt","coroutines/intrinsics/Intrinsics.kt","experimental/bitwiseOperations.kt","experimental/inferenceMarker.kt","internal/Annotations.kt","properties/Delegates.kt","properties/ObservableProperty.kt","random/Random.kt","random/URandom.kt","random/XorWowRandom.kt","ranges/Ranges.kt","reflect/typeOf.kt","text/Char.kt","text/Indent.kt","text/Typography.kt","text/regex/MatchResult.kt","time/Clock.kt","time/Clocks.kt","time/Duration.kt","time/DurationUnit.kt","time/ExperimentalTime.kt","time/measureTime.kt","util/HashCode.kt","util/KotlinVersion.kt","util/Lateinit.kt","util/Lazy.kt","util/Numbers.kt","util/Suspend.kt","util/Tuples.kt","kotlin/UIntRange.kt","kotlin/UIterators.kt","kotlin/ULongRange.kt","kotlin/UMath.kt","kotlin/UNumbers.kt","kotlin/UProgressionUtil.kt","kotlin/UStrings.kt","kotlin/annotations/Unsigned.kt","kotlin/MathH.kt","coroutines.kt","CoroutinesLibrary.kt","coroutinesIntrinsics.kt","ContinuationInterceptor.kt","CoroutineContext.kt","CoroutineContextImpl.kt","Coroutines.kt","Intrinsics.kt","SequenceBuilder.kt"],"sourcesContent":["(function

(root, factory) {\n   if (typeof define === 'function' && define.amd) {\n   define('kotlin', ['exports'], factory);\n   }\n   else if (typeof exports === 'object') {\n   factory(module.exports);\n   }\n   else {\n   root.kotlin = {};\n   factory(root.kotlin);\n   }\n}(this, function (Kotlin) {\n   var _ = Kotlin;\n\n   insertContent();\n}));\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.isBooleanArray = function (a) {\n   return (Array.isArray(a) || a instanceof Int8Array) && a.$type$ === \"BooleanArray\"\n};\n\nKotlin.isByteArray = function (a) {\n   return a instanceof Int8Array && a.$type$!== \"BooleanArray\"\n};\n\nKotlin.isShortArray = function (a) {\n   return a instanceof Int16Array\n};\n\nKotlin.isCharArray = function (a) {\n   return a instanceof Uint16Array && a.$type$ === \"CharArray\"\n};\n\nKotlin.isIntArray = function (a) {\n   return a instanceof Int32Array\n};\n\nKotlin.isFloatArray = function (a) {\n   return a instanceof Float32Array\n};\n\nKotlin.isDoubleArray = function (a) {\n   return a instanceof Float64Array\n};\n\nKotlin.isLongArray = function (a) {\n   return Array.isArray(a) && a.$type$ === \"LongArray\"\n};\n\nKotlin.isArray = function (a) {\n   return Array.isArray(a) && !a.$type$;\n};\n\nKotlin.isArrayish = function (a) {\n   return Array.isArray(a) || ArrayBuffer.isView(a)\n};\n\nKotlin.arrayToString = function (a) {\n   var toString = Kotlin.isCharArray(a) ? String.fromCharCode : Kotlin.toString;\n   return \"[\" + Array.prototype.map.call(a, function(e) { return toString(e); }).join(\", \") + \"]\";\n};\n\nKotlin.arrayDeepToString = function (arr) {\n   return Kotlin.kotlin.collections.contentDeepToStringImpl(arr);\n};\n\nKotlin.arrayEquals = function (a, b) {\n   if (a === b) {\n   return true;\n   }\n   if (!Kotlin.isArrayish(b) || a.length !== b.length) {\n   return false;\n   }\n\n   for (var i = 0, n = a.length; i < n; i++) {\n   if (!Kotlin.equals(a[i], b[i])) {\n   return false;\n   }\n   }\n   return true;\n};\n\nKotlin.arrayDeepEquals = function (a, b) {\n   return Kotlin.kotlin.collections.contentDeepEqualsImpl(a, b);\n};\n\nKotlin.arrayHashCode = function (arr) {\n   var result = 1;\n   for (var i = 0, n = arr.length; i < n; i++) {\n   result = ((31 * result | 0) + Kotlin.hashCode(arr[i])) | 0;\n   }\n   return result;\n};\n\nKotlin.arrayDeepHashCode = function (arr) {\n   return Kotlin.kotlin.collections.contentDeepHashCodeImpl(arr);\n};\n\nKotlin.primitiveArraySort = function (array) {\n   array.sort(Kotlin.doubleCompareTo)\n};\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.getCallableRef = function(name, f) {\n   f.callableName = name;\n   return f;\n};\n\nKotlin.getPropertyCallableRef = function(name, paramCount, getter, setter) {\n   getter.get = getter;\n   getter.set = setter;\n   getter.callableName = name;\n   return getPropertyRefClass(getter, setter, propertyRefClassMetadataCache[paramCount]);\n};\n\nfunction getPropertyRefClass(obj, setter, cache) {\n   obj.$metadata$ = getPropertyRefMetadata(typeof setter === \"function\" ? cache.mutable : cache.immutable);\n   obj.constructor = obj;\n   return obj;\n}\n\nvar propertyRefClassMetadataCache = [\n   {\n   mutable: { value: null, implementedInterface: function () {\n   return Kotlin.kotlin.reflect.KMutableProperty0\n   }\n   },\n   immutable: { value: null, implementedInterface: function () {\n   return Kotlin.kotlin.reflect.KProperty0\n   }\n   },\n   {\n   mutable: { value: null, implementedInterface: function () {\n   return Kotlin.kotlin.reflect.KMutableProperty1\n   }\n   },\n   immutable: { value: null, implementedInterface: function () {\n   return Kotlin.kotlin.reflect.KProperty1\n   }\n   }\n];\n\nfunction getPropertyRefMetadata(cache) {\n   if (cache.value === null) {\n   cache.value = {\n   interfaces: [cache.implementedInterface()],\n   baseClass: null,\n   functions: {},\n   properties: {},\n   types: {},\n   staticMembers: {}\n   };\n   }\n   return cache.value;\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.toShort = function (a) {\n   return (a & 0xFFFF) << 16 >> 16;\n};\n\nKotlin.toByte = function (a) {\n   return (a & 0xFF) << 24 >> 24;\n};\n\nKotlin.toChar = function (a) {\n   return a & 0xFFFF;\n};\n\nKotlin.numberToLong = function (a) {\n   return a instanceof Kotlin.Long ? a : Kotlin.Long.fromNumber(a);\n};\n\nKotlin.numberToInt

= function (a) {\n   return a instanceof Kotlin.Long ? a.toInt() :
Kotlin.doubleToInt(a);\n};\n\nKotlin.numberToShort = function (a) {\n   return
Kotlin.toShort(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToByte = function (a) {\n   return
Kotlin.toByte(Kotlin.numberToInt(a));\n};\n\nKotlin.numberToDouble = function (a) {\n   return
+a;\n};\n\nKotlin.numberToChar = function (a) {\n   return
Kotlin.toChar(Kotlin.numberToInt(a));\n};\n\nKotlin.doubleToInt = function(a) {\n   if (a > 2147483647) return
2147483647;\n   if (a < -2147483648) return -2147483648;\n   return a | 0;\n};\n\nKotlin.toBoxedChar = function
(a) {\n   if (a == null) return a;\n   if (a instanceof Kotlin.BoxedChar) return a;\n   return new
Kotlin.BoxedChar(a);\n};\n\nKotlin.unboxChar = function(a) {\n   if (a == null) return a;\n   return
Kotlin.toChar(a);\n};\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
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of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\nKotlin.equals = function (obj1, obj2) {\n   if (obj1 == null) {\n   return obj2 == null;\n   }\n\n   if (obj2 ==
null) {\n   return false;\n   }\n\n   if (obj1 !== obj1) {\n   return obj2 !== obj2;\n   }\n\n   if (typeof obj1 ===
\"object\" && typeof obj1.equals === \"function\") {\n   return obj1.equals(obj2);\n   }\n\n   if (typeof obj1 ===
\"number\" && typeof obj2 === \"number\") {\n   return obj1 === obj2 && (obj1 !== 0 || 1 / obj1 === 1 /
obj2)\n   }\n\n   return obj1 === obj2;\n};\n\nKotlin.hashCode = function (obj) {\n   if (obj == null) {\n   return
0;\n   }\n   var objType = typeof obj;\n   if (\"object\" === objType) {\n   return \"function\" === typeof
obj.hashCode ? obj.hashCode() : getObjectHashCode(obj);\n   }\n   if (\"function\" === objType) {\n   return
getObjectHashCode(obj);\n   }\n   if (\"number\"
=== objType) {\n   return Kotlin.numberHashCode(obj);\n   }\n   if (\"boolean\" === objType) {\n   return
Number(obj)\n   }\n\n   var str = String(obj);\n   return getStringHashCode(str);\n};\n\n\nKotlin.toString = function
(o) {\n   if (o == null) {\n   return \"null\";\n   }\n   else if (Kotlin.isArrayish(o)) {\n   return \"[...]\";\n   }\n
else {\n   return o.toString();\n   }\n};\n\n/** @const */\nvar POW_2_32 = 4294967296;\n// TODO: consider
switching to Symbol type once we are on ES6.\n/** @const */\nvar OBJECT_HASH_CODE_PROPERTY_NAME
= \"kotlinHashCodeValue$\";\n\nfunction getObjectHashCode(obj) {\n   if
(!(OBJECT_HASH_CODE_PROPERTY_NAME in obj)) {\n   var hash = (Math.random() * POW_2_32) | 0; //
Make 32-bit singed integer.\n   Object.defineProperty(obj, OBJECT_HASH_CODE_PROPERTY_NAME, {
value: hash, enumerable: false });\n   }\n   return
obj[OBJECT_HASH_CODE_PROPERTY_NAME];\n}\n\nfunction getStringHashCode(str) {\n
    var hash = 0;\n   for (var i = 0; i < str.length; i++) {\n   var code = str.charCodeAt(i);\n   hash = (hash * 31
+ code) | 0; // Keep it 32-bit.\n   }\n   return hash;\n}\n\nKotlin.identityHashCode = getObjectHashCode;\n","/*\n *
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is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Copyright 2009
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agreed to in writing, software\n// distributed under the License is distributed on an \"AS-IS\" BASIS,\n// WITHOUT
WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n\n/**\n
 * Constructs a 64-bit two's-complement integer, given its low and high 32-bit\n * values as *signed* integers. See
the from* functions below for more\n * convenient ways of constructing Longs.\n *\n * The internal representation
of a long is the two given signed, 32-bit values.\n * We use 32-bit pieces because these are the size of integers on
which\n * Javascript performs bit-operations. For operations like addition and\n * multiplication, we split each
number into 16-bit pieces, which can easily be\n * multiplied within Javascript's floating-point representation
without overflow\n * or change in sign.\n *\n * In the algorithms below, we frequently reduce the negative case to
the\n * positive case by negating the input(s) and then post-processing the result.\n * Note that we must ALWAYS
check specially whether those values are MIN_VALUE\n * (-2^63) because -MIN_VALUE == MIN_VALUE
(since 2^63 cannot be represented as\n * a positive number, it overflows back into a negative). Not handling

this\n * case would often result in infinite recursion.\n *\n * @param {number} low The low (signed) 32 bits of the long.\n * @param {number} high The high (signed) 32 bits of the long.\n * @constructor\n * @final\n */\nKotlin.Long = function(low, high) {\n /**\n   * @type {number}\n   * @private\n   */\n this.low_ = low | 0; // force into 32 signed bits.\n\n /**\n   * @type {number}\n   * @private\n   */\n this.high_ = high | 0; // force into 32 signed bits.\n};\n\nKotlin.Long.$metadata$ = {\n kind: \"class\",\n simpleName: \"Long\",\n interfaces:[]\n};\n\n\n// NOTE: Common constant values ZERO, ONE, NEG_ONE, etc. are defined below the\n// from* methods on which they depend.\n\n\n/**\n * A cache of the Long representations of small integer values.\n * @type {!Object}\n * @private\n */\nKotlin.Long.IntCache_ = {};\n\n\n/**\n * Returns a Long representing the given (32-bit) integer value.\n * @param {number} value The 32-bit integer in question.\n * @return {!Kotlin.Long}
The corresponding Long value.\n */\nKotlin.Long.fromInt = function(value) {\n if (-128 <= value && value < 128) {\n   var cachedObj = Kotlin.Long.IntCache_[value];\n   if (cachedObj) {\n   return cachedObj;\n   }\n }\n\n var obj = new Kotlin.Long(value | 0, value < 0 ? -1 : 0);\n if (-128 <= value && value < 128) {\n   Kotlin.Long.IntCache_[value] = obj;\n }\n return obj;\n};\n\n\n/**\n * Converts this number value to `Long`.\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is `NaN`, `Long.MIN_VALUE` if it's less than `Long.MIN_VALUE`,\n * `Long.MAX_VALUE` if it's bigger than `Long.MAX_VALUE`.\n * @param {number} value The number in question.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromNumber = function(value) {\n if (isNaN(value)) {\n   return Kotlin.Long.ZERO;\n } else if (value <= -Kotlin.Long.TWO_PWR_63_DBL_) {\n   return Kotlin.Long.MIN_VALUE;\n } else if (value +
1 >= Kotlin.Long.TWO_PWR_63_DBL_) {\n   return Kotlin.Long.MAX_VALUE;\n } else if (value < 0) {\n   return Kotlin.Long.fromNumber(-value).negate();\n } else {\n   return new Kotlin.Long(\n   (value % Kotlin.Long.TWO_PWR_32_DBL_) | 0,\n   (value / Kotlin.Long.TWO_PWR_32_DBL_) | 0);\n }\n};\n\n\n/**\n * Returns a Long representing the 64-bit integer that comes by concatenating\n * the given high and low bits. Each is assumed to use 32 bits.\n * @param {number} lowBits The low 32-bits.\n * @param {number} highBits The high 32-bits.\n * @return {!Kotlin.Long} The corresponding Long value.\n */\nKotlin.Long.fromBits = function(lowBits, highBits) {\n return new Kotlin.Long(lowBits, highBits);\n};\n\n\n/**\n * Returns a Long representation of the given string, written using the given\n * radix.\n * @param {string} str The textual representation of the Long.\n * @param {number=} opt_radix The radix in which the text is written.\n * @return {!Kotlin.Long} The corresponding Long
value.\n */\nKotlin.Long.fromString = function(str, opt_radix) {\n if (str.length == 0) {\n   throw Error('number format error: empty string');\n }\n\n var radix = opt_radix || 10;\n if (radix < 2 || 36 < radix) {\n   throw Error('radix out of range: ' + radix);\n }\n\n if (str.charAt(0) == '-') {\n   return Kotlin.Long.fromString(str.substring(1), radix).negate();\n } else if (str.indexOf('-') >= 0) {\n   throw Error('number format error: interior \"-\" character: ' + str);\n }\n\n // Do several (8) digits each time through the loop, so as to\n // minimize the calls to the very expensive emulated div.\n var radixToPower = Kotlin.Long.fromNumber(Math.pow(radix, 8));\n\n var result = Kotlin.Long.ZERO;\n for (var i = 0; i < str.length; i += 8) {\n   var size = Math.min(8, str.length - i);\n   var value = parseInt(str.substring(i, i + size), radix);\n   if (size < 8) {\n   var power = Kotlin.Long.fromNumber(Math.pow(radix, size));\n   result = result.multiply(power).add(Kotlin.Long.fromNumber(value));\n   } else {\n   result = result.multiply(radixToPower);\n   result = result.add(Kotlin.Long.fromNumber(value));\n   }\n }\n return result;\n};\n\n\n// NOTE: the compiler should inline these constant values below and then remove\n// these variables, so there should be no runtime penalty for these.\n\n\n/**\n * Number used repeated below in calculations. This must appear before the\n * first call to any from* function below.\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_16_DBL_ = 1 << 16;\n\n\n/**\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_24_DBL_ = 1 << 24;\n\n\n/**\n * @type {number}\n * @private\n */\nKotlin.Long.TWO_PWR_32_DBL_ =\n   Kotlin.Long.TWO_PWR_16_DBL_ * Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n/**\n * @type {number}\n * @private\n

```
*/\nKotlin.Long.TWO_PWR_31_DBL_ =\n    Kotlin.Long.TWO_PWR_32_DBL_ / 2;\n\n\n/**\n * @type
{number}\n * @private\n */\nKotlin.Long.TWO_PWR_48_DBL_ =\n    Kotlin.Long.TWO_PWR_32_DBL_
 * Kotlin.Long.TWO_PWR_16_DBL_;\n\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_64_DBL_ =\n    Kotlin.Long.TWO_PWR_32_DBL_ *
Kotlin.Long.TWO_PWR_32_DBL_;\n\n\n/**\n * @type {number}\n * @private\n
*/\nKotlin.Long.TWO_PWR_63_DBL_ =\n    Kotlin.Long.TWO_PWR_64_DBL_ / 2;\n\n\n/** @type
{!Kotlin.Long} */\nKotlin.Long.ZERO = Kotlin.Long.fromInt(0);\n\n\n/** @type {!Kotlin.Long}
*/\nKotlin.Long.ONE = Kotlin.Long.fromInt(1);\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.NEG_ONE =
Kotlin.Long.fromInt(-1);\n\n\n/** @type {!Kotlin.Long} */\nKotlin.Long.MAX_VALUE =\n
Kotlin.Long.fromBits(0xFFFFFFFF | 0, 0x7FFFFFFF | 0);\n\n\n/** @type {!Kotlin.Long}
*/\nKotlin.Long.MIN_VALUE = Kotlin.Long.fromBits(0, 0x80000000 | 0);\n\n\n/**\n * @type {!Kotlin.Long}\n *
@private\n */\nKotlin.Long.TWO_PWR_24_ = Kotlin.Long.fromInt(1 << 24);\n\n\n/** @return {number} The
value, assuming it is a 32-bit integer. */\nKotlin.Long.prototype.toInt = function() {\n  return this.low_;\n};\n\n\n/**
 @return {number} The closest floating-point representation to this value. */\nKotlin.Long.prototype.toNumber =
function() {\n  return this.high_ * Kotlin.Long.TWO_PWR_32_DBL_ +\n
this.getLowBitsUnsigned();\n};\n\n/** @return {number} The 32-bit hashCode of this value.
*/\nKotlin.Long.prototype.hashCode = function() {\n  return this.high_ ^ this.low_;\n};\n\n/**\n * @param
{number=} opt_radix The radix in which the text should be written.\n * @return {string} The textual representation
of this value.\n * @override\n */\nKotlin.Long.prototype.toString = function(opt_radix) {\n  var radix = opt_radix ||
10;\n  if (radix < 2 || 36 < radix) {\n    throw Error('radix out of range: ' + radix);\n  }\n\n  if (this.isZero()) {\n
return '0';\n  }\n\n  if (this.isNegative()) {\n    if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n      // We need to
change the Long value before it can be negated, so we remove\n      // the bottom-most digit in this base and then
recurse to do the rest.\n
      var radixLong = Kotlin.Long.fromNumber(radix);\n      var div = this.div(radixLong);\n      var rem =
div.multiply(radixLong).subtract(this);\n      return div.toString(radix) + rem.toInt().toString(radix);\n    } else {\n
return '-' + this.negate().toString(radix);\n    }\n  }\n\n  // Do several (6) digits each time through the loop, so as to\n
// minimize the calls to the very expensive emulated div.\n  var radixToPower =
Kotlin.Long.fromNumber(Math.pow(radix, 6));\n\n  var rem = this;\n  var result = '';\n  while (true) {\n    var
remDiv = rem.div(radixToPower);\n    var intval = rem.subtract(remDiv.multiply(radixToPower)).toInt();\n    var
digits = intval.toString(radix);\n\n    rem = remDiv;\n    if (rem.isZero()) {\n      return digits + result;\n    } else {\n
 while (digits.length < 6) {\n        digits = '0' + digits;\n      }\n      result = '' + digits + result;\n    }\n  }\n};\n\n\n/**
@return {number} The high 32-bits as a signed value. */\nKotlin.Long.prototype.getHighBits
 = function() {\n  return this.high_;\n};\n\n\n/** @return {number} The low 32-bits as a signed value.
*/\nKotlin.Long.prototype.getLowBits = function() {\n  return this.low_;\n};\n\n\n/** @return {number} The low
32-bits as an unsigned value. */\nKotlin.Long.prototype.getLowBitsUnsigned = function() {\n  return (this.low_ >=
0) ?\n      this.low_ : Kotlin.Long.TWO_PWR_32_DBL_ + this.low_;\n};\n\n\n/**\n * @return {number} Returns
the number of bits needed to represent the absolute\n *     value of this Long.\n
*/\nKotlin.Long.prototype.getNumBitsAbs = function() {\n  if (this.isNegative()) {\n    if
(this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n      return 64;\n    } else {\n      return
this.negate().getNumBitsAbs();\n    }\n  } else {\n    var val = this.high_ != 0 ? this.high_ : this.low_;\n    for (var bit
= 31; bit > 0; bit--) {\n      if ((val & (1 << bit)) != 0) {\n        break;\n      }\n    }\n    return this.high_ != 0 ? bit + 33
: bit + 1;\n  }\n};\n\n\n/**
 @return {boolean} Whether this value is zero. */\nKotlin.Long.prototype.isZero = function() {\n  return this.high_
== 0 && this.low_ == 0;\n};\n\n\n/** @return {boolean} Whether this value is negative.
*/\nKotlin.Long.prototype.isNegative = function() {\n  return this.high_ < 0;\n};\n\n\n/** @return {boolean}
Whether this value is odd. */\nKotlin.Long.prototype.isOdd = function() {\n  return (this.low_ & 1) ==
1;\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this
Long equals the other.\n */\nKotlin.Long.prototype.equalsLong = function(other) {\n  return (this.high_ ==
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other.high_) && (this.low_ == other.low_);\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long does not equal the other.\n */\nKotlin.Long.prototype.notEquals = function(other) {\n return (this.high_ != other.high_) || (this.low_ != other.low_);\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is less than the other.\n */\nKotlin.Long.prototype.lessThan = function(other) {\n return this.compare(other) < 0;\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is less than or equal to the other.\n */\nKotlin.Long.prototype.lessThanOrEqual = function(other) {\n return this.compare(other) <= 0;\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is greater than the other.\n */\nKotlin.Long.prototype.greaterThan = function(other) {\n return this.compare(other) > 0;\n};\n\n\n/**\n * @param {Kotlin.Long} other Long to compare against.\n * @return {boolean} Whether this Long is greater than or equal to the other.\n */\nKotlin.Long.prototype.greaterThanOrEqual = function(other) {\n return this.compare(other) >= 0;\n};\n\n\n/**\n * Compares this Long with the given one.\n * @param {Kotlin.Long} other Long to compare against.\n * @return {number} 0 if they are the same, 1 if the this is greater, and -1\n *   if the given one is greater.\n */\nKotlin.Long.prototype.compare = function(other) {\n if (this.equalsLong(other)) {\n   return 0;\n }\n\n var thisNeg = this.isNegative();\n var otherNeg = other.isNegative();\n if (thisNeg && !otherNeg) {\n   return -1;\n }\n if (!thisNeg && otherNeg) {\n   return 1;\n }\n\n // at this point, the signs are the same, so subtraction will not overflow\n if (this.subtract(other).isNegative()) {\n   return -1;\n } else {\n   return 1;\n }\n};\n\n\n/** @return {!Kotlin.Long} The negation of this value. */\nKotlin.Long.prototype.negate = function() {\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n   return Kotlin.Long.MIN_VALUE;\n } else {\n   return this.not().add(Kotlin.Long.ONE);\n }\n};\n\n\n/**\n * Returns the sum of this and the given Long.\n * @param {Kotlin.Long} other Long to add to this one.\n * @return {!Kotlin.Long} The sum of this and the given Long.\n */\nKotlin.Long.prototype.add = function(other) {\n // Divide each number into 4 chunks of 16 bits, and then sum the chunks.\n\n var a48 = this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 = this.low_ >>> 16;\n var a00 = this.low_ & 0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ & 0xFFFF;\n var b16 = other.low_ >>> 16;\n var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\n c00 += a00 + b00;\n c16 += c00 >>> 16;\n c00 &= 0xFFFF;\n c16 += a16 + b16;\n c32 += c16 >>> 16;\n c16 &= 0xFFFF;\n c32 += a32 + b32;\n c48 += c32 >>> 16;\n c32 &= 0xFFFF;\n c48 += a48 + b48;\n c48 &= 0xFFFF;\n return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n\n/**\n * Returns the difference of this and the given Long.\n * @param {Kotlin.Long} other Long to subtract from this.\n * @return {!Kotlin.Long} The difference of this and the given Long.\n */\nKotlin.Long.prototype.subtract = function(other) {\n return this.add(other.negate());\n};\n\n\n/**\n * Returns the product of this and the given long.\n * @param {Kotlin.Long} other Long to multiply with this.\n * @return {!Kotlin.Long} The product of this and the other.\n */\nKotlin.Long.prototype.multiply = function(other) {\n if (this.isZero()) {\n   return Kotlin.Long.ZERO;\n } else if (other.isZero()) {\n   return Kotlin.Long.ZERO;\n }\n\n if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n   return other.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\n } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n   return this.isOdd() ? Kotlin.Long.MIN_VALUE : Kotlin.Long.ZERO;\n }\n\n if (this.isNegative()) {\n   if (other.isNegative()) {\n   return this.negate().multiply(other.negate());\n   } else {\n   return this.negate().multiply(other).negate();\n   }\n } else if (other.isNegative()) {\n   return this.multiply(other.negate()).negate();\n }\n\n // If both longs are small, use float multiplication\n if (this.lessThan(Kotlin.Long.TWO_PWR_24_) &&\n   other.lessThan(Kotlin.Long.TWO_PWR_24_)) {\n   return Kotlin.Long.fromNumber(this.toNumber() * other.toNumber());\n }\n\n // Divide each long into 4 chunks of 16 bits, and then add up 4x4 products.\n // We can skip products that would overflow.\n\n var a48 = this.high_ >>> 16;\n var a32 = this.high_ & 0xFFFF;\n var a16 = this.low_ >>> 16;\n var a00 = this.low_ & 0xFFFF;\n\n var b48 = other.high_ >>> 16;\n var b32 = other.high_ & 0xFFFF;\n var b16 = other.low_ >>> 16;\n var b00 = other.low_ & 0xFFFF;\n\n var c48 = 0, c32 = 0, c16 = 0, c00 = 0;\n c00 += a00 * b00;\n c16 += c00 >>> 16;\n c00 &=

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0xFFFF;\n  c16 += a16 * b00;\n  c32 += c16 >>> 16;\n  c16 &= 0xFFFF;\n  c16 += a00 * b16;\n  c32 += c16 >>> 16;\n  c16 &= 0xFFFF;\n  c32 += a32 * b00;\n  c48 += c32 >>> 16;\n  c32 &= 0xFFFF;\n  c32 += a16 * b16;\n  c48 += c32 >>> 16;\n  c32 &= 0xFFFF;\n  c32 += a00 * b32;\n  c48 += c32 >>> 16;\n  c32 &= 0xFFFF;\n  c48 += a48 *
 b00 + a32 * b16 + a16 * b32 + a00 * b48;\n  c48 &= 0xFFFF;\n  return Kotlin.Long.fromBits((c16 << 16) | c00, (c48 << 16) | c32);\n};\n\n\n/**\n * Returns this Long divided by the given one.\n * @param {Kotlin.Long} other Long by which to divide.\n * @return {!Kotlin.Long} This Long divided by the given one.\n */\nKotlin.Long.prototype.div = function(other) {\n  if (other.isZero()) {\n    throw Error('division by zero');\n  } else if (this.isZero()) {\n    return Kotlin.Long.ZERO;\n  }\n\n  if (this.equalsLong(Kotlin.Long.MIN_VALUE)) {\n    if (other.equalsLong(Kotlin.Long.ONE) ||\n        other.equalsLong(Kotlin.Long.NEG_ONE)) {\n      return Kotlin.Long.MIN_VALUE;  // recall that -MIN_VALUE == MIN_VALUE\n    } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n      return Kotlin.Long.ONE;\n    } else {\n      // At this point, we have |other| >= 2, so |this/other| < |MIN_VALUE|.\n      var halfThis = this.shiftRight(1);\n      var approx = halfThis.div(other).shiftLeft(1);\n      if
 (approx.equalsLong(Kotlin.Long.ZERO)) {\n        return other.isNegative() ? Kotlin.Long.ONE : Kotlin.Long.NEG_ONE;\n      } else {\n        var rem = this.subtract(other.multiply(approx));\n        var result = approx.add(rem.div(other));\n        return result;\n      }\n    }\n  } else if (other.equalsLong(Kotlin.Long.MIN_VALUE)) {\n    return Kotlin.Long.ZERO;\n  }\n\n  if (this.isNegative()) {\n    if (other.isNegative()) {\n      return this.negate().div(other.negate());\n    } else {\n      return this.negate().div(other).negate();\n    }\n  } else if (other.isNegative()) {\n    return this.div(other.negate()).negate();\n  }\n\n  // Repeat the following until the remainder is less than other:  find a\n  // floating-point that approximates remainder / other *from below*, add this\n  // into the result, and subtract it from the remainder.  It is critical that\n  // the approximate value is less than or equal to the real value so that the\n  // remainder never becomes negative.\n
  var res = Kotlin.Long.ZERO;\n  var rem = this;\n  while (rem.greaterThanOrEqual(other)) {\n    // Approximate the result of division. This may be a little greater or\n    // smaller than the actual value.\n    var approx = Math.max(1, Math.floor(rem.toNumber() / other.toNumber()));\n\n    // We will tweak the approximate result by changing it in the 48-th digit or\n    // the smallest non-fractional digit, whichever is larger.\n    var log2 = Math.ceil(Math.log(approx) / Math.LN2);\n    var delta = (log2 <= 48) ? 1 : Math.pow(2, log2 - 48);\n\n    // Decrease the approximation until it is smaller than the remainder.  Note\n    // that if it is too large, the product overflows and is negative.\n    var approxRes = Kotlin.Long.fromNumber(approx);\n    var approxRem = approxRes.multiply(other);\n    while (approxRem.isNegative() || approxRem.greaterThan(rem)) {\n      approx -= delta;\n      approxRes = Kotlin.Long.fromNumber(approx);\n      approxRem = approxRes.multiply(other);\n    }\n\n
    // We know the answer can't be zero... and actually, zero would cause\n    // infinite recursion since we would make no progress.\n    if (approxRes.isZero()) {\n      approxRes = Kotlin.Long.ONE;\n    }\n\n    res = res.add(approxRes);\n    rem = rem.subtract(approxRem);\n  }\n  return res;\n};\n\n\n/**\n * Returns this Long modulo the given one.\n * @param {Kotlin.Long} other Long by which to mod.\n * @return {!Kotlin.Long} This Long modulo the given one.\n */\nKotlin.Long.prototype.modulo = function(other) {\n  return this.subtract(this.div(other).multiply(other));\n};\n\n\n/** @return {!Kotlin.Long} The bitwise-NOT of this value. */\nKotlin.Long.prototype.not = function() {\n  return Kotlin.Long.fromBits(~this.low_, ~this.high_);\n};\n\n\n/**\n * Returns the bitwise-AND of this Long and the given one.\n * @param {Kotlin.Long} other The Long with which to AND.\n * @return {!Kotlin.Long} The bitwise-AND of this and the other.\n */\nKotlin.Long.prototype.and = function(other)
 {\n  return Kotlin.Long.fromBits(this.low_ & other.low_,\n                              this.high_ & other.high_);\n};\n\n\n/**\n * Returns the bitwise-OR of this Long and the given one.\n * @param {Kotlin.Long} other The Long with which to OR.\n * @return {!Kotlin.Long} The bitwise-OR of this and the other.\n */\nKotlin.Long.prototype.or = function(other) {\n  return Kotlin.Long.fromBits(this.low_ | other.low_,\n              this.high_ | other.high_);\n};\n\n\n/**\n * Returns the bitwise-XOR of this Long and the given one.\n *
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@param {Kotlin.Long} other The Long with which to XOR.\n * @return {!Kotlin.Long} The bitwise-XOR of this and the other.\n */\nKotlin.Long.prototype.xor = function(other) {\n return Kotlin.Long.fromBits(this.low_ ^ other.low_,\n   this.high_ ^ other.high_);\n};\n\n\n/**\n * Returns this Long with bits shifted to the left by the given amount.\n * @param {number} numBits The number of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the left by the given amount.\n */\nKotlin.Long.prototype.shiftLeft = function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n   return this;\n } else {\n   var low = this.low_;\n   if (numBits < 32) {\n   var high = this.high_;\n   return Kotlin.Long.fromBits(\n   low << numBits,\n   (high << numBits) | (low >>> (32 - numBits)));\n   } else {\n   return Kotlin.Long.fromBits(0, low << (numBits - 32));\n   }\n }\n};\n\n\n/**\n * Returns this Long with bits shifted to the right by the given amount.\n * @param {number} numBits The number of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the right by the given amount.\n */\nKotlin.Long.prototype.shiftRight = function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n   return this;\n } else {\n   var high = this.high_;\n   if (numBits < 32) {\n   var low = this.low_;\n   return Kotlin.Long.fromBits(\n   (low >>> numBits) | (high << (32 - numBits)),\n   high >> numBits);\n   } else {\n   return Kotlin.Long.fromBits(\n   high >> (numBits - 32),\n   high >= 0 ? 0 : -1);\n   }\n }\n};\n\n\n/**\n * Returns this Long with bits shifted to the right by the given amount, with\n * zeros placed into the new leading bits.\n * @param {number} numBits The number of bits by which to shift.\n * @return {!Kotlin.Long} This shifted to the right by the given amount, with\n *   zeros placed into the new leading bits.\n */\nKotlin.Long.prototype.shiftRightUnsigned = function(numBits) {\n numBits &= 63;\n if (numBits == 0) {\n   return this;\n } else {\n   var high = this.high_;\n   if (numBits < 32) {\n   var low = this.low_;\n   return Kotlin.Long.fromBits(\n   (low >>> numBits) | (high << (32 - numBits)),\n   high >>> numBits);\n   } else if (numBits == 32) {\n   return Kotlin.Long.fromBits(high, 0);\n   } else {\n   return Kotlin.Long.fromBits(high >>> (numBits - 32), 0);\n   }\n }\n};\n\n// Support for Kotlin\nKotlin.Long.prototype.equals = function (other) {\n   return other instanceof Kotlin.Long && this.equalsLong(other);\n};\n\nKotlin.Long.prototype.compareTo_11rb$ = Kotlin.Long.prototype.compare;\n\nKotlin.Long.prototype.inc = function() {\n   return this.add(Kotlin.Long.ONE);\n};\n\nKotlin.Long.prototype.dec = function() {\n   return this.add(Kotlin.Long.NEG_ONE);\n};\n\nKotlin.Long.prototype.valueOf = function() {\n   return this.toNumber();\n};\n\nKotlin.Long.prototype.unaryPlus = function() {\n   return this;\n};\n\nKotlin.Long.prototype.unaryMinus = Kotlin.Long.prototype.negate;\nKotlin.Long.prototype.inv = Kotlin.Long.prototype.not;\n\nKotlin.Long.prototype.rangeTo = function (other) {\n   return new Kotlin.kotlin.ranges.LongRange(this, other);\n};","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found
 in the license/LICENSE.txt file.\n */\n\n/**\n * @param {string} id\n * @param {Object} declaration\n */\nKotlin.defineModule = function (id, declaration) {\n};\n\nKotlin.defineInlineFunction = function(tag, fun) {\n   return fun;\n};\n\nKotlin.wrapFunction = function(fun) {\n   var f = function() {\n   f = fun();\n   return f.apply(this, arguments);\n   };\n   return function() {\n   return f.apply(this, arguments);\n   };\n};\n\nKotlin.isTypeOf = function(type) {\n   return function (object) {\n   return typeof object === type;\n   }\n};\n\nKotlin.isInstanceOf = function (klass) {\n   return function (object) {\n   return Kotlin.isType(object, klass);\n   }\n};\n\nKotlin.orNull = function (fn) {\n   return function (object) {\n   return object == null || fn(object);\n   }\n};\n\nKotlin.andPredicate = function (a, b) {\n   return function (object) {\n   return a(object) && b(object);\n   }\n};\n\nKotlin.kotlinModuleMetadata = function (abiVersion,
 moduleName, data) {\n};\n\nKotlin.suspendCall = function(value) {\n   return value;\n};\n\nKotlin.coroutineResult = function(qualifier) {\n   throwMarkerError();\n};\n\nKotlin.coroutineController = function(qualifier) {\n   throwMarkerError();\n};\n\nKotlin.coroutineReceiver = function(qualifier) {\n   throwMarkerError();\n};\n\nKotlin.setCoroutineResult = function(value, qualifier) {\n   throwMarkerError();\n};\n\nfunction throwMarkerError() {\n   throw new Error(\n   \"This marker function should never been called. \" +\n   \"Looks like compiler did not eliminate it properly. \" +\n   \"Please, report

an issue if you caught this exception.\");\n}\n\nKotlin.getFunctionById = function(id, defaultValue) {\n return function() {\n   return defaultValue;\n }\n};","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.compareTo = function (a, b) {\n var typeA = typeof a;\n if (typeA === \"number\") {\n   if (typeof b === \"number\") {\n   return Kotlin.doubleCompareTo(a, b);\n   }\n   return Kotlin.primitiveCompareTo(a, b);\n }\n if (typeA === \"string\" || typeA === \"boolean\") {\n   return Kotlin.primitiveCompareTo(a, b);\n }\n return a.compareTo_11rb$(b);\n};\n\nKotlin.primitiveCompareTo = function (a, b) {\n return a < b ? -1 : a > b ? 1 : 0;\n};\n\nKotlin.doubleCompareTo = function (a, b) {\n if (a < b) return -1;\n if (a > b) return 1;\n\n if (a === b) {\n   if (a !== 0) return 0;\n\n   var ia = 1 / a;\n   return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n }\n\n return a !== a ? (b !== b ? 0 : 1) : -1\n};\n\nKotlin.charInc = function (value) {\n return Kotlin.toChar(value+1);\n};\n\nKotlin.charDec = function (value) {\n return Kotlin.toChar(value-1);\n};\n\nKotlin.imul = Math.imul || imul;\n\nKotlin.imulEmulated = imul;\n\nfunction imul(a, b) {\n return ((a & 0xffff0000) * (b & 0xffff) + (a & 0xffff) * (b | 0)) | 0;\n}\n\n(function() {\n var buf = new ArrayBuffer(8);\n var bufFloat64 = new Float64Array(buf);\n var bufFloat32 = new Float32Array(buf);\n var bufInt32 = new Int32Array(buf);\n var lowIndex = 0;\n var highIndex = 1;\n\n bufFloat64[0] = -1; // bff00000_00000000\n if (bufInt32[lowIndex] !== 0) {\n   lowIndex = 1;\n   highIndex = 0;\n }\n\n Kotlin.doubleToBits = function(value) {\n   return Kotlin.doubleToRawBits(isNaN(value) ? NaN : value);\n };\n\n Kotlin.doubleToRawBits = function(value) {\n   bufFloat64[0] = value;\n   return Kotlin.Long.fromBits(bufInt32[lowIndex], bufInt32[highIndex]);\n };\n\n Kotlin.doubleFromBits = function(value) {\n   bufInt32[lowIndex] = value.low_;\n   bufInt32[highIndex] = value.high_;\n   return bufFloat64[0];\n };\n\n Kotlin.floatToBits = function(value) {\n   return Kotlin.floatToRawBits(isNaN(value) ? NaN : value);\n };\n\n Kotlin.floatToRawBits = function(value) {\n   bufFloat32[0] = value;\n   return bufInt32[0];\n };\n\n Kotlin.floatFromBits = function(value) {\n   bufInt32[0] = value;\n   return bufFloat32[0];\n };\n\n // returns zero value for number with positive sign bit and non-zero value for number with negative sign bit.\n Kotlin.doubleSignBit = function(value) {\n   bufFloat64[0] = value;\n   return bufInt32[highIndex] & 0x80000000;\n };\n\n Kotlin.numberHashCode = function(obj) {\n   if ((obj | 0) === obj) {\n   return obj | 0;\n   }\n   else {\n   bufFloat64[0] = obj;\n   return (bufInt32[highIndex] * 31 | 0) + bufInt32[lowIndex] | 0;\n   }\n }\n})();\n\nKotlin.ensureNotNull = function(x) {\n return x != null ? x : Kotlin.throwNPE();\n};\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nif (typeof String.prototype.startsWith === \"undefined\") {\n String.prototype.startsWith = function(searchString, position) {\n   position = position || 0;\n   return this.lastIndexOf(searchString, position) === position;\n };\n}\n\nif (typeof String.prototype.endsWith === \"undefined\") {\n String.prototype.endsWith = function(searchString, position) {\n   var subjectString = this.toString();\n   if (position === undefined || position > subjectString.length) {\n   position = subjectString.length;\n   }\n   position -= searchString.length;\n   var lastIndex = subjectString.indexOf(searchString, position);\n   return lastIndex !== -1 && lastIndex === position;\n };\n}\n\n// ES6 Math polyfills\nif (typeof Math.sign === \"undefined\") {\n Math.sign = function(x) {\n   x = +x; // convert to a number\n   if (x === 0 || isNaN(x)) {\n   return Number(x);\n   }\n   return x > 0 ? 1 : -1;\n };\n}\n\nif (typeof Math.trunc === \"undefined\") {\n Math.trunc = function(x) {\n   if (isNaN(x)) {\n   return NaN;\n   }\n   if (x > 0) {\n   return Math.floor(x);\n   }\n   return Math.ceil(x);\n };\n}\n\n(function() {\n var epsilon = 2.220446049250313E-16;\n var taylor_2_bound = Math.sqrt(epsilon);\n var taylor_n_bound = Math.sqrt(taylor_2_bound);\n var upper_taylor_2_bound = 1/taylor_2_bound;\n var upper_taylor_n_bound = 1/taylor_n_bound;\n\n if (typeof Math.sinh === \"undefined\") {\n   Math.sinh = function(x) {\n   if (Math.abs(x) < taylor_n_bound) {\n   var result = x;\n   if (Math.abs(x) > taylor_2_bound) {\n   result += (x * x * x) / 6;\n   }\n   return result;\n

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} else {\n var y = Math.exp(x);\n var y1 = 1 / y;\n if (!isFinite(y)) return Math.exp(x - Math.LN2);\n if (!isFinite(y1)) return -Math.exp(-x - Math.LN2);\n return (y - y1) / 2;\n }\n };\n }\n if (typeof Math.cosh === \"undefined\") {\n Math.cosh = function(x) {\n var y = Math.exp(x);\n var y1 = 1 / y;\n if (!isFinite(y) || !isFinite(y1)) return Math.exp(Math.abs(x) - Math.LN2);\n return (y + y1) / 2;\n };\n }\n\n if (typeof Math.tanh === \"undefined\") {\n Math.tanh = function(x){\n if (Math.abs(x) < taylor_n_bound) {\n var result = x;\n if (Math.abs(x) > taylor_2_bound) {\n result -= (x * x * x) / 3;\n }\n return result;\n }\n else {\n var a = Math.exp(+x), b = Math.exp(-x);\n return a === Infinity ? 1 : b === Infinity ? -1 : (a - b) / (a + b);\n }\n };\n }\n\n // Inverse hyperbolic function implementations derived from boost special math functions,\n // Copyright Eric Ford & Hubert Holin 2001.\n\n if (typeof Math.asinh === \"undefined\") {\n var asinh = function(x) {\n if (x >= +taylor_n_bound)\n {\n if (x > upper_taylor_n_bound)\n {\n if (x > upper_taylor_2_bound)\n {\n // approximation by laurent series in 1/x at 0+ order from -1 to 0\n return Math.log(x) + Math.LN2;\n }\n else\n {\n // approximation by laurent series in 1/x at 0+ order from -1 to 1\n return Math.log(x * 2 + (1 / (x * 2)));\n }\n }\n else\n {\n return Math.log(x + Math.sqrt(x * x + 1));\n }\n }\n else if (x <= -taylor_n_bound)\n {\n return -asinh(-x);\n }\n else\n {\n // approximation by taylor series in x at 0 up to order 2\n var result = x;\n if (Math.abs(x) >= taylor_2_bound)\n {\n var x3 = x * x * x;\n // approximation by taylor series in x at 0 up to order 4\n result -= x3 / 6;\n }\n return result;\n }\n };\n Math.asinh = asinh;\n }\n if (typeof Math.acosh === \"undefined\") {\n Math.acosh = function(x) {\n if (x < 1)\n {\n return NaN;\n }\n else if (x - 1 >= taylor_n_bound)\n {\n if (x > upper_taylor_2_bound)\n {\n // approximation by laurent series in 1/x at 0+ order from -1 to 0\n return Math.log(x) + Math.LN2;\n }\n else\n {\n return Math.log(x + Math.sqrt(x * x - 1));\n }\n }\n else\n {\n var y = Math.sqrt(x - 1);\n // approximation by taylor series in y at 0 up to order 2\n var result = y;\n if (y >= taylor_2_bound)\n {\n var y3 = y * y * y;\n // approximation by taylor series in y at 0 up to order 4\n result -= y3 / 12;\n }\n\n return Math.sqrt(2) * result;\n }\n };\n }\n if (typeof Math.atanh === \"undefined\") {\n Math.atanh = function(x) {\n if (Math.abs(x) < taylor_n_bound) {\n var result = x;\n if (Math.abs(x) > taylor_2_bound)\n {\n result += (x * x * x) / 3;\n }\n return result;\n }\n return Math.log((1 + x) / (1 - x)) / 2;\n };\n }\n if (typeof Math.log1p === \"undefined\") {\n Math.log1p = function(x) {\n if (Math.abs(x) < taylor_n_bound) {\n var x2 = x * x;\n var x3 = x2 * x;\n var x4 = x3 * x;\n // approximation by taylor series in x at 0 up to order 4\n return (-x4 / 4 + x3 / 3 - x2 / 2 + x);\n }\n return Math.log(x + 1);\n };\n }\n if (typeof Math.expm1 === \"undefined\") {\n Math.expm1 = function(x) {\n if (Math.abs(x) < taylor_n_bound) {\n var x2 = x * x;\n var x3 = x2 * x;\n var x4 = x3 * x;\n // approximation by taylor series in x at 0 up to order 4\n return (x4 / 24 + x3 / 6 + x2 / 2 + x);\n }\n return Math.exp(x) - 1;\n };\n }\n})();\nif (typeof Math.hypot === \"undefined\") {\n Math.hypot = function() {\n var y = 0;\n var length = arguments.length;\n\n for (var i = 0; i < length; i++) {\n if (arguments[i] === Infinity || arguments[i] === -Infinity) {\n return Infinity;\n }\n y += arguments[i] * arguments[i];\n }\n return Math.sqrt(y);\n };\n}\nif (typeof Math.log10 === \"undefined\") {\n Math.log10 = function(x) {\n return Math.log(x) * Math.LOG10E;\n };\n}\nif (typeof Math.log2 === \"undefined\") {\n Math.log2 = function(x) {\n return Math.log(x) * Math.LOG2E;\n };\n}\nif (typeof Math.clz32 === \"undefined\") {\n Math.clz32 = (function(log, LN2) {\n return function(x) {\n var asUint = x >>> 0;\n if (asUint === 0) {\n return 32;\n }\n return 31 -
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(log(asUint)
/ LN2 | 0) | 0; // the \"| 0\" acts like math.floor\n };\n })(Math.log, Math.LN2);\n}\n\n// For HtmlUnit and PhantomJs\nif (typeof ArrayBuffer.isView === \"undefined\") {\n ArrayBuffer.isView = function(a) {\n return a != null && a.__proto__ != null && a.__proto__.__proto__ === Int8Array.prototype.__proto__;\n };\n}\n\nif (typeof Array.prototype.fill === \"undefined\") {\n // Polyfill from https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/fill#Polyfill\n Array.prototype.fill = function() {\n // Steps 1-2.\n if (this == null) {\n throw new TypeError('this is null or not defined');\n }\n\n var O = Object(this);\n\n // Steps 3-5.\n var len = O.length >>> 0;\n\n // Steps 6-7.\n var start = arguments[1];\n var relativeStart = start >> 0;\n\n // Step 8.\n var k = relativeStart < 0 ?\n Math.max(len + relativeStart, 0) :\n Math.min(relativeStart, len);\n\n
// Steps 9-10.\n var end = arguments[2];\n var relativeEnd = end === undefined ?\n len : end >> 0;\n\n // Step 11.\n var final = relativeEnd < 0 ?\n Math.max(len + relativeEnd, 0) :\n Math.min(relativeEnd, len);\n\n // Step 12.\n while (k < final) {\n O[k] = value;\n k++;\n }\n\n // Step 13.\n return O;\n };\n}\n\n(function() {\n function normalizeOffset(offset, length) {\n if (offset < 0) return Math.max(0, offset + length);\n return Math.min(offset, length);\n }\n function typedArraySlice(begin, end) {\n if (typeof end === \"undefined\") {\n end = this.length;\n }\n begin = normalizeOffset(begin || 0, this.length);\n end = Math.max(begin, normalizeOffset(end, this.length));\n return new this.constructor(this.subarray(begin, end));\n }\n\n var arrays = [Int8Array, Int16Array, Uint16Array, Int32Array, Float32Array, Float64Array];\n
for (var i = 0; i < arrays.length; ++i) {\n var TypedArray = arrays[i];\n if (typeof TypedArray.prototype.fill === \"undefined\") {\n TypedArray.prototype.fill = Array.prototype.fill;\n }\n
if (typeof TypedArray.prototype.slice === \"undefined\") {\n Object.defineProperty(TypedArray.prototype, 'slice', {\n value: typedArraySlice\n });\n }\n }\n\n // Patch apply to work with TypedArrays if needed.\n try {\n (function() {}).apply(null, new Int32Array(0))\n } catch (e) {\n var apply = Function.prototype.apply;\n Object.defineProperty(Function.prototype, 'apply', {\n value: function(self, array) {\n return apply.call(this, self, [].slice.call(array));\n }\n });\n }\n\n\n // Patch map to work with TypedArrays if needed.\n for (var i = 0; i < arrays.length; ++i) {\n var TypedArray = arrays[i];\n if (typeof TypedArray.prototype.map === \"undefined\") {\n Object.defineProperty(TypedArray.prototype, 'map', {\n value: function(callback, self) {\n return [].slice.call(this).map(callback, self);\n
}\n });\n }\n }\n\n // Patch sort to work with TypedArrays if needed.\n // TODO: consider to remove following function and replace it with `Kotlin.doubleCompareTo` (see misc.js)\n var totalOrderComparator = function (a, b) {\n if (a < b) return -1;\n if (a > b) return 1;\n\n if (a === b) {\n if (a !== 0) return 0;\n\n var ia = 1 / a;\n return ia === 1 / b ? 0 : (ia < 0 ? -1 : 1);\n }\n\n return a !== a ? (b !== b ? 0 : 1) : -1\n };\n\n for (var i = 0; i < arrays.length; ++i) {\n var TypedArray = arrays[i];\n if (typeof TypedArray.prototype.sort === \"undefined\") {\n Object.defineProperty(TypedArray.prototype,
'sort', {\n value: function(compareFunction) {\n return Array.prototype.sort.call(this, compareFunction || totalOrderComparator);\n }\n });\n }\n }\n})();\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors. \n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\nKotlin.Kind = {\n CLASS: \"class\",\n INTERFACE: \"interface\",\n OBJECT: \"object\"\n};\n\nKotlin.callGetter = function (thisObject, klass, propertyName) {\n var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);\n if (propertyDescriptor != null && propertyDescriptor.get != null) {\n return propertyDescriptor.get.call(thisObject);\n }\n\n propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject, propertyName);\n if (propertyDescriptor != null && \"value\" in propertyDescriptor) {\n

return thisObject[propertyName];\n }\n\n return Kotlin.callGetter(thisObject, Object.getPrototypeOf(klass), propertyName);\n};\n\nKotlin.callSetter = function (thisObject, klass, propertyName, value) {\n var propertyDescriptor = Object.getOwnPropertyDescriptor(klass, propertyName);\n if (propertyDescriptor != null && propertyDescriptor.set != null) {\n propertyDescriptor.set.call(thisObject, value);\n return;\n }\n\n propertyDescriptor = Object.getOwnPropertyDescriptor(thisObject, propertyName);\n if (propertyDescriptor != null && \"value\" in propertyDescriptor) {\n thisObject[propertyName] = value;\n return\n }\n\n Kotlin.callSetter(thisObject, Object.getPrototypeOf(klass), propertyName, value);\n};\n\nfunction isInheritanceFromInterface(ctor, iface) {\n if (ctor === iface) return true;\n\n var metadata = ctor.$metadata$;\n if (metadata != null) {\n var interfaces = metadata.interfaces;\n for (var i = 0; i < interfaces.length; i++) {\n if (isInheritanceFromInterface(interfaces[i], iface)) {\n return true;\n }\n }\n }\n\n var superPrototype = ctor.prototype != null ? Object.getPrototypeOf(ctor.prototype) : null;\n var superConstructor = superPrototype != null ? superPrototype.constructor : null;\n return superConstructor != null && isInheritanceFromInterface(superConstructor, iface);\n}\n\n/**\n *\n * @param {*} object\n * @param {Function|Object} klass\n * @returns {Boolean}\n */\nKotlin.isType = function (object, klass) {\n if (klass === Object) {\n switch (typeof object) {\n case \"string\":\n case \"number\":\n case \"boolean\":\n case \"function\":\n return true;\n default:\n return object instanceof Object;\n }\n }\n\n if (object == null || klass == null || (typeof object !== 'object' && typeof object !== 'function'))\n {\n return false;\n }\n\n if (typeof klass === \"function\" && object instanceof klass) {\n return true;\n }\n\n var proto = Object.getPrototypeOf(klass);\n var constructor = proto != null ? proto.constructor : null;\n if (constructor != null && \"$metadata$\" in constructor) {\n var metadata = constructor.$metadata$;\n if (metadata.kind === Kotlin.Kind.OBJECT) {\n return object === klass;\n }\n }\n\n var klassMetadata = klass.$metadata$;\n\n // In WebKit (JavaScriptCore) for some interfaces from DOM typeof returns \"object\", nevertheless they can be used in RHS of instanceof\n if (klassMetadata == null) {\n return object instanceof klass;\n }\n\n if (klassMetadata.kind === Kotlin.Kind.INTERFACE && object.constructor != null) {\n return isInheritanceFromInterface(object.constructor, klass);\n }\n\n return false;\n};\n\nKotlin.isNumber = function (a) {\n return typeof a == \"number\" || a instanceof Kotlin.Long;\n};\n\nKotlin.isChar = function (value) {\n return value instanceof Kotlin.BoxedChar\n};\n\nKotlin.isComparable = function (value) {\n var type = typeof value;\n\n return type === \"string\" ||\n type === \"boolean\" ||\n Kotlin.isNumber(value) ||\n Kotlin.isType(value, Kotlin.kotlin.Comparable);\n};\n\nKotlin.isCharSequence = function (value) {\n return typeof value === \"string\" || Kotlin.isType(value, Kotlin.kotlin.CharSequence);\n};",null,"/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\npublic class Enum<T : Enum<T>> : Comparable<Enum<T>> {\n @JsName(\"name$\") private var _name: String = \"\"\n @JsName(\"ordinal$\") private var _ordinal: Int = 0\n\n val name: String\n get() = _name\n\n val ordinal: Int\n get() = _ordinal\n\n override fun compareTo(other: Enum<T>) = ordinal.compareTo(other.ordinal)\n\n override fun equals(other: Any?) = this === other\n\n override fun hashCode(): Int = js(\"Kotlin.identityHashCode\")(this)\n\n override fun toString() = name\n\n companion object\n}",null,"/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ArraysKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out

T>.component1(): T {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component1(): Byte {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component1(): Short {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component1(): Int {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component1(): Long {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component1(): Float {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator
fun DoubleArray.component1(): Double {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component1(): Boolean {\n return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component1(): Char {\n   return get(0)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component2(): T {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component2(): Byte {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component2(): Short {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic
inline operator fun IntArray.component2(): Int {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component2(): Long {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component2(): Float {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component2(): Double {\n return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component2(): Boolean {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component2(): Char {\n   return get(1)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component3(): T {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component3(): Byte {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component3(): Short {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component3(): Int {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component3(): Long {\n return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component3(): Float {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from
the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component3(): Double {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n
*/\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component3(): Boolean {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component3(): Char {\n   return get(2)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component4(): T {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component4(): Byte {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component4(): Short {\n return get(3)\n}\n\n/**\n

* Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component4(): Int {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component4(): Long {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component4(): Float {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component4(): Double {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component4(): Boolean {\n return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component4(): Char {\n

return get(3)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Array<out T>.component5(): T {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ByteArray.component5(): Byte {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun ShortArray.component5(): Short {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun IntArray.component5(): Int {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun LongArray.component5(): Long {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun FloatArray.component5():

Float {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun DoubleArray.component5(): Double {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun BooleanArray.component5(): Boolean {\n return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharArray.component5(): Char {\n return get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.contains(element: T): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun ByteArray.contains(element: Byte): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic

operator fun ShortArray.contains(element: Short): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun IntArray.contains(element: Int): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun LongArray.contains(element: Long): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun FloatArray.contains(element: Float): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun DoubleArray.contains(element: Double): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element] is found in the array.\n */\npublic operator fun BooleanArray.contains(element: Boolean): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns `true` if [element]

is found in the array.\n */\npublic operator fun CharArray.contains(element: Char): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun <T> Array<out T>.elementAt(index: Int): T\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun ByteArray.elementAt(index: Int): Byte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample

samples.collections.Collections.Elements.elementAt\n */\npublic expect fun ShortArray.elementAt(index: Int): Short\n\n/**\n * Returns an element at the given [index] or
throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun IntArray.elementAt(index: Int): Int\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun LongArray.elementAt(index: Int): Long\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun FloatArray.elementAt(index: Int): Float\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun DoubleArray.elementAt(index:
Int): Double\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun BooleanArray.elementAt(index: Int): Boolean\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun CharArray.elementAt(index: Int): Char\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n
* Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function
if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Int): Int {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Double): Double {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of

bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.elementAtOrNull(index: Int): T? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.elementAtOrNull(index: Int): Byte? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.elementAtOrNull(index: Int): Short? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.elementAtOrNull(index: Int): Int? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.elementAtOrNull(index: Int): Long? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.elementAtOrNull(index: Int): Float? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.elementAtOrNull(index: Int): Double? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.elementAtOrNull(index: Int): Boolean? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.elementAtOrNull(index: Int): Char? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.find(predicate: (T) -> Boolean): T? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.find(predicate: (Byte) -> Boolean): Byte? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.find(predicate: (Short) -> Boolean): Short? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.find(predicate: (Int) -> Boolean): Int? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.find(predicate: (Long) -> Boolean): Long? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given

[predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.find(predicate: (Float) -> Boolean): Float? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.find(predicate: (Double) -> Boolean): Double? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.find(predicate: (Boolean) -> Boolean): Boolean? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.find(predicate: (Char) -> Boolean): Char? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.findLast(predicate: (Byte) -> Boolean): Byte? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.findLast(predicate: (Short) -> Boolean): Short? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.findLast(predicate: (Int) -> Boolean): Int? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.findLast(predicate: (Long) -> Boolean): Long? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.findLast(predicate: (Float) -> Boolean): Float? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.findLast(predicate: (Double) -> Boolean): Double? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.findLast(predicate: (Boolean) -> Boolean): Boolean? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.findLast(predicate:
(Char) -> Boolean): Char? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun <T> Array<out T>.first(): T {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun ByteArray.first(): Byte {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun ShortArray.first(): Short {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun IntArray.first(): Int {\n if (isEmpty())\n throw NoSuchElementException(\"Array
is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun LongArray.first(): Long {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun FloatArray.first(): Float {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun DoubleArray.first(): Double {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun BooleanArray.first():

Boolean {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n
* Returns first element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun CharArray.first(): Char {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Array<out T>.first(predicate: (T) -> Boolean): T {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun ByteArray.first(predicate: (Byte) -> Boolean): Byte {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n
* Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun ShortArray.first(predicate: (Short) -> Boolean): Short {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun IntArray.first(predicate: (Int) -> Boolean): Int {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun LongArray.first(predicate: (Long) -> Boolean): Long {\n for (element in this) if (predicate(element)) return
element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun FloatArray.first(predicate: (Float) -> Boolean): Float {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun DoubleArray.first(predicate: (Double) -> Boolean): Double {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic
inline fun BooleanArray.first(predicate: (Boolean) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun CharArray.first(predicate: (Char) -> Boolean): Char {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun <T> Array<out T>.firstOrNull(): T? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun ByteArray.firstOrNull(): Byte? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if
the array is empty.\n */\npublic fun ShortArray.firstOrNull(): Short? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun IntArray.firstOrNull(): Int? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun LongArray.firstOrNull(): Long? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun FloatArray.firstOrNull(): Float? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n

*/\npublic fun DoubleArray.firstOrNull(): Double? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\npublic fun BooleanArray.firstOrNull(): Boolean? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first
element, or `null` if the array is empty.\n */\npublic fun CharArray.firstOrNull(): Char? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun <T> Array<out T>.firstOrNull(predicate: (T) -> Boolean): T? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun ByteArray.firstOrNull(predicate: (Byte) -> Boolean): Byte? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun ShortArray.firstOrNull(predicate: (Short) -> Boolean): Short? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first
element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun IntArray.firstOrNull(predicate: (Int) -> Boolean): Int? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun LongArray.firstOrNull(predicate: (Long) -> Boolean): Long? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun FloatArray.firstOrNull(predicate: (Float) -> Boolean): Float? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun DoubleArray.firstOrNull(predicate: (Double) -> Boolean): Double? {\n
    for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun BooleanArray.firstOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun CharArray.firstOrNull(predicate: (Char) -> Boolean): Char? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.getOrElse(index: Int, defaultValue: (Int) -> T): T {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n
 * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.getOrElse(index: Int, defaultValue: (Int) -> Byte): Byte {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.getOrElse(index: Int, defaultValue: (Int) -> Short): Short {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.getOrElse(index: Int, defaultValue: (Int) -> Int):
 Int {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.getOrElse(index: Int, defaultValue: (Int) -> Long): Long {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.getOrElse(index: Int, defaultValue: (Int) -> Float): Float {\n   return if (index >= 0 && index <= lastIndex) get(index) else

defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic
inline fun DoubleArray.getOrElse(index: Int, defaultValue: (Int) -> Double): Double {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.getOrElse(index: Int, defaultValue: (Int) -> Boolean): Boolean {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index]
is out of bounds of this array.\n */\npublic fun <T> Array<out T>.getOrNull(index: Int): T? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun ByteArray.getOrNull(index: Int): Byte? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun ShortArray.getOrNull(index: Int): Short? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun IntArray.getOrNull(index: Int): Int? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic
fun LongArray.getOrNull(index: Int): Long? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun FloatArray.getOrNull(index: Int): Float? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun DoubleArray.getOrNull(index: Int): Double? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun BooleanArray.getOrNull(index: Int): Boolean? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\npublic fun CharArray.getOrNull(index:
Int): Char? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.indexOf(element: T): Int {\n if (element == null) {\n for (index in indices) {\n if (this[index] == null) {\n return index\n }\n }\n } else {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun ByteArray.indexOf(element: Byte): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun ShortArray.indexOf(element:
Short): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun IntArray.indexOf(element: Int): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun LongArray.indexOf(element: Long): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun FloatArray.indexOf(element: Float): Int {\n for (index in indices) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n

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 * Returns first index of [element], or -1 if the array does not contain element.\n */\npublic fun
DoubleArray.indexOf(element: Double): Int {\n    for (index in indices) {\n        if (element == this[index]) {\n
 return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not
contain element.\n */\npublic fun BooleanArray.indexOf(element: Boolean): Int {\n    for (index in indices) {\n
if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns first index of
[element], or -1 if the array does not contain element.\n */\npublic fun CharArray.indexOf(element: Char): Int {\n
for (index in indices) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -
1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain
such element.\n */\npublic inline fun
 <T> Array<out T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    for (index in indices) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ByteArray.indexOfFirst(predicate: (Byte) -> Boolean): Int {\n    for (index in indices) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ShortArray.indexOfFirst(predicate: (Short) -> Boolean): Int {\n    for (index in indices) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such
 element.\n */\npublic inline fun IntArray.indexOfFirst(predicate: (Int) -> Boolean): Int {\n    for (index in indices)
{\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of
the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline
fun LongArray.indexOfFirst(predicate: (Long) -> Boolean): Int {\n    for (index in indices) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
FloatArray.indexOfFirst(predicate: (Float) -> Boolean): Int {\n    for (index in indices) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the first
element matching the given [predicate], or -1 if
 the array does not contain such element.\n */\npublic inline fun DoubleArray.indexOfFirst(predicate: (Double) ->
Boolean): Int {\n    for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n
return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not
contain such element.\n */\npublic inline fun BooleanArray.indexOfFirst(predicate: (Boolean) -> Boolean): Int {\n
for (index in indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -
1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain
such element.\n */\npublic inline fun CharArray.indexOfFirst(predicate: (Char) -> Boolean): Int {\n    for (index in
indices) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns
index of the last element matching
 the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun <T> Array<out
T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ByteArray.indexOfLast(predicate: (Byte) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun
ShortArray.indexOfLast(predicate: (Short) -> Boolean): Int {\n    for (index in indices.reversed()) {\n        if
(predicate(this[index])) {\n            return index\n        }\n    }\n
  return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not
contain such element.\n */\npublic inline fun IntArray.indexOfLast(predicate: (Int) -> Boolean): Int {\n    for (index
in indices.reversed()) {\n        if (predicate(this[index])) {\n            return index\n        }\n    }\n    return -
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1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun LongArray.indexOfLast(predicate: (Long) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun FloatArray.indexOfLast(predicate: (Float) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index]))
{\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun DoubleArray.indexOfLast(predicate: (Double) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun BooleanArray.indexOfLast(predicate: (Boolean) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\npublic inline fun CharArray.indexOfLast(predicate: (Char) -> Boolean): Int {\n for
(index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun <T> Array<out T>.last(): T {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun ByteArray.last(): Byte {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun ShortArray.last(): Short {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun
IntArray.last(): Int {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun LongArray.last(): Long {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun FloatArray.last(): Float {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun DoubleArray.last(): Double {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun
BooleanArray.last(): Boolean {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n */\npublic fun CharArray.last(): Char {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Array<out T>.last(predicate: (T) -> Boolean): T {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun ByteArray.last(predicate:
(Byte) -> Boolean): Byte {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun ShortArray.last(predicate: (Short) -> Boolean): Short {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if

(predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun IntArray.last(predicate: (Int) -> Boolean): Int {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun LongArray.last(predicate: (Long) -> Boolean): Long {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun FloatArray.last(predicate: (Float) -> Boolean): Float {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun DoubleArray.last(predicate: (Double) -> Boolean): Double {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun BooleanArray.last(predicate: (Boolean) -> Boolean): Boolean {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun CharArray.last(predicate: (Char) -> Boolean): Char {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Array<out T>.lastIndexOf(element: T): Int {\n if (element == null) {\n for (index in indices.reversed()) {\n if (this[index] == null) {\n return index\n }\n }\n } else {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun ByteArray.lastIndexOf(element: Byte): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun ShortArray.lastIndexOf(element: Short): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun IntArray.lastIndexOf(element: Int): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun LongArray.lastIndexOf(element: Long): Int {\n for (index in indices.reversed()) {\n if (element == this[index])\n {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun FloatArray.lastIndexOf(element: Float): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun DoubleArray.lastIndexOf(element: Double): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\npublic fun BooleanArray.lastIndexOf(element: Boolean): Int {\n for (index in indices.reversed()) {\n if (element == this[index]) {\n return index\n }\n }\n return -

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1\n}\n\n/**\n * Returns last index of [element],
 or -1 if the array does not contain element.\n */\npublic fun CharArray.lastIndexOf(element: Char): Int {\n    for (index in indices.reversed()) {\n        if (element == this[index]) {\n            return index\n        }\n    }\n    return -1\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun <T> Array<out T>.lastOrNull(): T? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun ByteArray.lastOrNull(): Byte? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun ShortArray.lastOrNull(): Short? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun IntArray.lastOrNull(): Int? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the
 array is empty.\n */\npublic fun LongArray.lastOrNull(): Long? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun FloatArray.lastOrNull(): Float? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun DoubleArray.lastOrNull(): Double? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun BooleanArray.lastOrNull(): Boolean? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\npublic fun CharArray.lastOrNull(): Char? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun <T> Array<out T>.lastOrNull(predicate:
 (T) -> Boolean): T? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun ByteArray.lastOrNull(predicate: (Byte) -> Boolean): Byte? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun ShortArray.lastOrNull(predicate: (Short) -> Boolean): Short? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic
 inline fun IntArray.lastOrNull(predicate: (Int) -> Boolean): Int? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun LongArray.lastOrNull(predicate: (Long) -> Boolean): Long? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun FloatArray.lastOrNull(predicate: (Float) -> Boolean): Float? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null`
 if no such element was found.\n */\npublic inline fun DoubleArray.lastOrNull(predicate: (Double) -> Boolean): Double? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun BooleanArray.lastOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun CharArray.lastOrNull(predicate: (Char) -> Boolean): Char? {\n    for (index in this.indices.reversed()) {\n        val element = this[index]\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns
 a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.random(): T {\n
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return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.random(): Byte {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.random(): Short {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.random(): Int {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.random(): Long {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.random(): Float {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.random(): Double {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.random(): Boolean {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.random(): Char {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> Array<out T>.random(random: Random): T {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun ByteArray.random(random: Random): Byte {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun ShortArray.random(random: Random): Short {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun IntArray.random(random: Random): Int {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun LongArray.random(random: Random): Long {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun FloatArray.random(random: Random): Float {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun DoubleArray.random(random: Random): Double {\n if (isEmpty())\n throw NoSuchElementException(\"Array is empty.\")\n return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun BooleanArray.random(random: Random):

Boolean {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun CharArray.random(random: Random): Char {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun <T> Array<out T>.single(): T {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun ByteArray.single(): Byte {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun ShortArray.single(): Short {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun IntArray.single(): Int {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun LongArray.single(): Long {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun FloatArray.single(): Float {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun DoubleArray.single(): Double {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun BooleanArray.single(): Boolean {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\npublic fun CharArray.single(): Char {\n   return when (size) {\n   0 -> throw NoSuchElementException(\"Array is empty.\")\n   1 -> this[0]\n   else -> throw IllegalArgumentException(\"Array has more than one element.\")\n   }\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun <T> Array<out T>.single(predicate: (T) -> Boolean): T {\n   var single: T? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as T\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun ByteArray.single(predicate: (Byte) -> Boolean): Byte {\n   var single: Byte? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as Byte\n}\n\n/**\n * Returns the single element matching

the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun ShortArray.single(predicate: (Short) -> Boolean): Short {\n var single: Short? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Short\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun IntArray.single(predicate: (Int) -> Boolean): Int {\n var single: Int? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Int\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun LongArray.single(predicate: (Long) -> Boolean): Long {\n var single: Long? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Long\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun FloatArray.single(predicate: (Float) -> Boolean): Float {\n var single: Float? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Float\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun DoubleArray.single(predicate: (Double) -> Boolean): Double {\n var single: Double? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Double\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun BooleanArray.single(predicate: (Boolean) -> Boolean): Boolean {\n var single: Boolean? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Boolean\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun CharArray.single(predicate: (Char) -> Boolean): Char {\n var single: Char? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Char\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun <T> Array<out T>.singleOrNull(): T? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun ByteArray.singleOrNull(): Byte? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one

element.\n */\npublic fun ShortArray.singleOrNull(): Short? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun IntArray.singleOrNull(): Int? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun LongArray.singleOrNull(): Long? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null`
 if the array is empty or has more than one element.\n */\npublic fun FloatArray.singleOrNull(): Float? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun DoubleArray.singleOrNull(): Double? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun BooleanArray.singleOrNull(): Boolean? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\npublic fun CharArray.singleOrNull(): Char? {\n   return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun <T> Array<out T>.singleOrNull(predicate: (T) -> Boolean): T? {\n   var single:
 T? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun ByteArray.singleOrNull(predicate: (Byte) -> Boolean): Byte? {\n   var single: Byte? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun ShortArray.singleOrNull(predicate: (Short) -> Boolean): Short? {\n
 var single: Short? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun IntArray.singleOrNull(predicate: (Int) -> Boolean): Int? {\n   var single: Int? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun LongArray.singleOrNull(predicate: (Long) -> Boolean): Long?
 {\n   var single: Long? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun FloatArray.singleOrNull(predicate: (Float) -> Boolean): Float? {\n   var single: Float? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun DoubleArray.singleOrNull(predicate: (Double) ->
 Boolean): Double? {\n   var single: Double? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun BooleanArray.singleOrNull(predicate: (Boolean) -> Boolean): Boolean? {\n   var single: Boolean? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n   single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns the

single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun CharArray.singleOrNull(predicate:
(Char) -> Boolean): Char? {\n var single: Char? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n
if (!found) return null\n return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.drop(n: Int): List<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.drop(n: Int): List<Byte> {\n require(n >=
0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.drop(n: Int): List<Short> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.drop(n: Int): List<Int> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException
if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun LongArray.drop(n: Int): List<Long> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun FloatArray.drop(n: Int): List<Float> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun DoubleArray.drop(n: Int): List<Double> {\n require(n >= 0) { \"Requested element count $n is less
than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun BooleanArray.drop(n: Int): List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun CharArray.drop(n: Int): List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n *
\n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Array<out T>.dropLast(n: Int): List<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ByteArray.dropLast(n: Int): List<Byte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size -

n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun ShortArray.dropLast(n: Int): List<Short> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun IntArray.dropLast(n: Int): List<Int> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun LongArray.dropLast(n: Int): List<Long> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun FloatArray.dropLast(n: Int): List<Float> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun DoubleArray.dropLast(n: Int): List<Double> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun BooleanArray.dropLast(n: Int): List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun CharArray.dropLast(n: Int): List<Char> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Array<out T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ByteArray.dropLastWhile(predicate: (Byte) -> Boolean): List<Byte> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ShortArray.dropLastWhile(predicate: (Short) -> Boolean): List<Short> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun IntArray.dropLastWhile(predicate: (Int) -> Boolean): List<Int> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun LongArray.dropLastWhile(predicate: (Long) -> Boolean): List<Long> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements

except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun FloatArray.dropLastWhile(predicate: (Float) -> Boolean): List<Float> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun DoubleArray.dropLastWhile(predicate: (Double) -> Boolean): List<Double> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun BooleanArray.dropLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun CharArray.dropLastWhile(predicate: (Char) -> Boolean): List<Char> {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return take(index + 1)\n }\n }\n return emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> Array<out T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n var yielding = false\n val list = ArrayList<T>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ByteArray.dropWhile(predicate: (Byte) -> Boolean): List<Byte> {\n var yielding = false\n val list = ArrayList<Byte>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun ShortArray.dropWhile(predicate: (Short) -> Boolean): List<Short> {\n var yielding = false\n val list = ArrayList<Short>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun IntArray.dropWhile(predicate: (Int) -> Boolean): List<Int> {\n var yielding = false\n val list = ArrayList<Int>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun LongArray.dropWhile(predicate: (Long) -> Boolean): List<Long> {\n var yielding = false\n val list = ArrayList<Long>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun FloatArray.dropWhile(predicate: (Float) -> Boolean): List<Float> {\n var yielding = false\n val list = ArrayList<Float>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun DoubleArray.dropWhile(predicate: (Double) -> Boolean): List<Double> {\n var yielding = false\n val list = ArrayList<Double>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n

yielding = true\n }\n return list\n}\n\n/**\n * Returns
a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun BooleanArray.dropWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n var yielding = false\n val list = ArrayList<Boolean>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun CharArray.dropWhile(predicate: (Char) -> Boolean): List<Char> {\n var yielding = false\n val list = ArrayList<Char>()\n for (item in this)\n if (yielding)\n list.add(item)\n else if (!predicate(item)) {\n list.add(item)\n
yielding = true\n }\n return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun <T> Array<out T>.filter(predicate: (T) -> Boolean): List<T> {\n return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun ByteArray.filter(predicate: (Byte) -> Boolean): List<Byte> {\n return filterTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun ShortArray.filter(predicate: (Short) -> Boolean): List<Short> {\n return filterTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun IntArray.filter(predicate: (Int) -> Boolean): List<Int> {\n return filterTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun LongArray.filter(predicate: (Long) -> Boolean): List<Long> {\n return filterTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun FloatArray.filter(predicate: (Float) -> Boolean): List<Float> {\n return filterTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun DoubleArray.filter(predicate: (Double) -> Boolean): List<Double> {\n return filterTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun BooleanArray.filter(predicate: (Boolean) -> Boolean): List<Boolean> {\n return filterTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun CharArray.filter(predicate: (Char) -> Boolean):
List<Char> {\n return filterTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <T> Array<out T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun ByteArray.filterIndexed(predicate: (index: Int, Byte) -> Boolean): List<Byte> {\n return filterIndexedTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes
the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun ShortArray.filterIndexed(predicate: (index: Int, Short) -> Boolean): List<Short> {\n return filterIndexedTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun IntArray.filterIndexed(predicate: (index: Int, Int) -> Boolean): List<Int> {\n return filterIndexedTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun LongArray.filterIndexed(predicate: (index: Int, Long)
-> Boolean): List<Long> {\n return filterIndexedTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an

element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun FloatArray.filterIndexed(predicate: (index: Int, Float) -> Boolean): List<Float> {\n return filterIndexedTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun DoubleArray.filterIndexed(predicate: (index: Int, Double) -> Boolean): List<Double> {\n return filterIndexedTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n *
@param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun BooleanArray.filterIndexed(predicate: (index: Int, Boolean) -> Boolean): List<Boolean> {\n return filterIndexedTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun CharArray.filterIndexed(predicate: (index: Int, Char) -> Boolean): List<Char> {\n return filterIndexedTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline
fun <T, C : MutableCollection<in T>> Array<out T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterIndexedTo(destination: C, predicate: (index: Int, Byte) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the
result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterIndexedTo(destination: C, predicate: (index: Int, Short) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterIndexedTo(destination: C, predicate: (index: Int, Int) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes
the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Long>> LongArray.filterIndexedTo(destination: C, predicate: (index: Int, Long) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterIndexedTo(destination: C, predicate: (index: Int, Float) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to
the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterIndexedTo(destination: C, predicate: (index: Int, Double) -> Boolean): C {\n

forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterIndexedTo(destination: C, predicate: (index: Int, Boolean) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Returns a list containing all elements that are instances of specified type parameter R.\n */\npublic inline fun <reified R> Array<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n return filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all elements that are instances of specified type parameter R to the given [destination].\n */\npublic inline fun <reified R, C : MutableCollection<in R>> Array<*>.filterIsInstanceTo(destination: C): C {\n for (element in this) if (element is R) destination.add(element)\n return destination\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun <T> Array<out T>.filterNot(predicate: (T) -> Boolean): List<T> {\n return filterNotTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun ByteArray.filterNot(predicate: (Byte) -> Boolean): List<Byte> {\n return filterNotTo(ArrayList<Byte>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun ShortArray.filterNot(predicate: (Short) -> Boolean): List<Short> {\n return filterNotTo(ArrayList<Short>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun IntArray.filterNot(predicate: (Int) -> Boolean): List<Int> {\n return filterNotTo(ArrayList<Int>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun LongArray.filterNot(predicate: (Long) -> Boolean): List<Long> {\n return filterNotTo(ArrayList<Long>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun FloatArray.filterNot(predicate: (Float) -> Boolean): List<Float> {\n return filterNotTo(ArrayList<Float>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun DoubleArray.filterNot(predicate: (Double) -> Boolean): List<Double> {\n return filterNotTo(ArrayList<Double>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun BooleanArray.filterNot(predicate: (Boolean) -> Boolean): List<Boolean> {\n return filterNotTo(ArrayList<Boolean>(), predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun CharArray.filterNot(predicate: (Char) -> Boolean): List<Char> {\n return filterNotTo(ArrayList<Char>(), predicate)\n}\n\n/**\n * Returns a list containing all elements that are not `null`.\n */\npublic fun <T : Any> Array<out T?>.filterNotNull(): List<T> {\n return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n */\npublic fun <C : MutableCollection<in T>, T : Any> Array<out T?>.filterNotNullTo(destination: C): C {\n for (element in this) if (element != null) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterNotTo(destination: C, predicate: (Byte) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given

[destination].\n */\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterNotTo(destination: C, predicate: (Short) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterNotTo(destination: C, predicate: (Int) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Long>> LongArray.filterNotTo(destination: C, predicate: (Long) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterNotTo(destination: C, predicate: (Float) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterNotTo(destination: C, predicate: (Double) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterNotTo(destination: C, predicate: (Boolean) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <T, C : MutableCollection<in T>> Array<out T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Byte>> ByteArray.filterTo(destination: C, predicate: (Byte) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Short>> ShortArray.filterTo(destination: C, predicate: (Short) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Int>> IntArray.filterTo(destination: C, predicate: (Int) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Long>> LongArray.filterTo(destination: C, predicate: (Long) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Float>> FloatArray.filterTo(destination: C, predicate: (Float) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Double>> DoubleArray.filterTo(destination: C, predicate: (Double) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Boolean>> BooleanArray.filterTo(destination: C, predicate: (Boolean) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : MutableCollection<in Char>> CharArray.filterTo(destination: C, predicate: (Char) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return

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destination\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun <T> Array<out T>.slice(indices: IntRange): List<T> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun ByteArray.slice(indices: IntRange): List<Byte> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun ShortArray.slice(indices: IntRange): List<Short> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun IntArray.slice(indices: IntRange): List<Int> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun LongArray.slice(indices: IntRange): List<Long> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun FloatArray.slice(indices: IntRange): List<Float> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun DoubleArray.slice(indices: IntRange): List<Double> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun BooleanArray.slice(indices: IntRange): List<Boolean> {\n    if (indices.isEmpty()) return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun CharArray.slice(indices: IntRange): List<Char> {\n    if (indices.isEmpty())\n    return listOf()\n    return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun <T> Array<out T>.slice(indices: Iterable<Int>): List<T> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<T>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun ByteArray.slice(indices: Iterable<Int>): List<Byte> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Byte>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun ShortArray.slice(indices: Iterable<Int>): List<Short> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Short>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun IntArray.slice(indices: Iterable<Int>): List<Int> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Int>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun LongArray.slice(indices: Iterable<Int>): List<Long> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Long>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun FloatArray.slice(indices: Iterable<Int>): List<Float> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Float>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun DoubleArray.slice(indices: Iterable<Int>): List<Double> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Double>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun BooleanArray.slice(indices: Iterable<Int>): List<Boolean> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<Boolean>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n *
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Returns a list containing
elements at specified [indices].\n */\npublic fun CharArray.slice(indices: Iterable<Int>): List<Char> {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return emptyList()\n val list = ArrayList<Char>(size)\n for (index in indices) {\n list.add(get(index))\n }\n return list\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun <T> Array<T>.sliceArray(indices: Collection<Int>): Array<T> {\n val result = arrayOfNulls(this, indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun ByteArray.sliceArray(indices: Collection<Int>): ByteArray {\n val result = ByteArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n
}\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun ShortArray.sliceArray(indices: Collection<Int>): ShortArray {\n val result = ShortArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun IntArray.sliceArray(indices: Collection<Int>): IntArray {\n val result = IntArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun LongArray.sliceArray(indices: Collection<Int>): LongArray {\n val result = LongArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun FloatArray.sliceArray(indices: Collection<Int>): FloatArray {\n val result = FloatArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun DoubleArray.sliceArray(indices: Collection<Int>): DoubleArray {\n val result = DoubleArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun BooleanArray.sliceArray(indices: Collection<Int>): BooleanArray {\n val result = BooleanArray(indices.size)\n var targetIndex
= 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\npublic fun CharArray.sliceArray(indices: Collection<Int>): CharArray {\n val result = CharArray(indices.size)\n var targetIndex = 0\n for (sourceIndex in indices) {\n result[targetIndex++] = this[sourceIndex]\n }\n return result\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun <T> Array<T>.sliceArray(indices: IntRange): Array<T> {\n if (indices.isEmpty()) return copyOfRange(0, 0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun ByteArray.sliceArray(indices: IntRange): ByteArray {\n if (indices.isEmpty()) return ByteArray(0)\n return copyOfRange(indices.start,
indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun ShortArray.sliceArray(indices: IntRange): ShortArray {\n if (indices.isEmpty()) return ShortArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun IntArray.sliceArray(indices: IntRange): IntArray {\n if (indices.isEmpty()) return IntArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun LongArray.sliceArray(indices: IntRange): LongArray {\n if (indices.isEmpty()) return LongArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun FloatArray.sliceArray(indices:
IntRange): FloatArray {\n if (indices.isEmpty()) return FloatArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices]

range.\n */\npublic fun DoubleArray.sliceArray(indices: IntRange): DoubleArray {\n if (indices.isEmpty()) return DoubleArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun BooleanArray.sliceArray(indices: IntRange): BooleanArray {\n if (indices.isEmpty()) return BooleanArray(0)\n return copyOfRange(indices.start, indices.endInclusive + 1)\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\npublic fun CharArray.sliceArray(indices: IntRange): CharArray {\n if (indices.isEmpty()) return CharArray(0)\n return copyOfRange(indices.start, indices.endInclusive
+ 1)\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.take(n: Int): List<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<T>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.take(n: Int): List<Byte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n
if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Byte>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.take(n: Int): List<Short> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Short>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n
*/\npublic fun IntArray.take(n: Int): List<Int> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Int>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun LongArray.take(n: Int): List<Long> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Long>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n
break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.take(n: Int): List<Float> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Float>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.take(n: Int): List<Double> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n if (n == 0) return
emptyList()\n if (n >= size) return toList()\n if (n == 1) return listOf(this[0])\n var count = 0\n val list = ArrayList<Double>(n)\n for (item in this) {\n list.add(item)\n if (++count == n)\n break\n }\n return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.take(n: Int): List<Boolean> {\n require(n >= 0) { \"Requested element count $n is less than zero.\"

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}\n    if (n == 0) return emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Boolean>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n
 * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun CharArray.take(n: Int): List<Char> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<Char>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Array<out T>.takeLast(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<T>(n)\n    for (index
 in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ByteArray.takeLast(n: Int): List<Byte> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Byte>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun ShortArray.takeLast(n: Int): List<Short> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n
 == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Short>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun IntArray.takeLast(n: Int): List<Int> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Int>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n
 */\npublic fun LongArray.takeLast(n: Int): List<Long> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Long>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun FloatArray.takeLast(n: Int): List<Float> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Float>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n
   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun DoubleArray.takeLast(n: Int): List<Double> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Double>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun BooleanArray.takeLast(n: Int):
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List<Boolean> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Boolean>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun CharArray.takeLast(n: Int): List<Char> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<Char>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Array<out T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ByteArray.takeLastWhile(predicate: (Byte) -> Boolean): List<Byte> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ShortArray.takeLastWhile(predicate: (Short) -> Boolean): List<Short> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun IntArray.takeLastWhile(predicate: (Int) -> Boolean): List<Int> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun LongArray.takeLastWhile(predicate: (Long) -> Boolean): List<Long> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun FloatArray.takeLastWhile(predicate: (Float) -> Boolean): List<Float> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun DoubleArray.takeLastWhile(predicate: (Double) -> Boolean): List<Double> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun BooleanArray.takeLastWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun CharArray.takeLastWhile(predicate: (Char) -> Boolean): List<Char> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return drop(index + 1)\n        }\n    }\n    return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Array<out T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n    val list = ArrayList<T>()\n    for (item in this) {\n        if (!predicate(item))\n            break\n        list.add(item)\n    }\n    return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n
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*/\npublic inline fun ByteArray.takeWhile(predicate: (Byte) -> Boolean): List<Byte> {\n val list = ArrayList<Byte>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun ShortArray.takeWhile(predicate: (Short) -> Boolean): List<Short> {\n val list = ArrayList<Short>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun IntArray.takeWhile(predicate: (Int) -> Boolean): List<Int> {\n val list = ArrayList<Int>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun LongArray.takeWhile(predicate: (Long) -> Boolean): List<Long> {\n val list = ArrayList<Long>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun FloatArray.takeWhile(predicate: (Float) -> Boolean): List<Float> {\n val list = ArrayList<Float>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun DoubleArray.takeWhile(predicate: (Double) -> Boolean): List<Double> {\n val list = ArrayList<Double>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun BooleanArray.takeWhile(predicate: (Boolean) -> Boolean): List<Boolean> {\n val list = ArrayList<Boolean>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun CharArray.takeWhile(predicate: (Char) -> Boolean): List<Char> {\n val list = ArrayList<Char>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun <T> Array<T>.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun ByteArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun ShortArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun IntArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun LongArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun FloatArray.reverse(): Unit {\n val midPoint = (size / 2) - 1\n if (midPoint < 0) return\n var reverseIndex = lastIndex\n for (index in 0..midPoint) {\n val tmp = this[index]\n this[index] = this[reverseIndex]\n this[reverseIndex] = tmp\n reverseIndex--\n

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}\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun DoubleArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun BooleanArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Reverses elements in the array in-place.\n */\npublic fun CharArray.reverse(): Unit {\n    val midPoint = (size / 2) - 1\n    if (midPoint < 0) return\n    var reverseIndex = lastIndex\n    for (index in 0..midPoint) {\n        val tmp = this[index]\n        this[index] = this[reverseIndex]\n        this[reverseIndex] = tmp\n        reverseIndex--\n    }\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun <T> Array<out T>.reversed(): List<T> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun ByteArray.reversed(): List<Byte> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic
 fun ShortArray.reversed(): List<Short> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun IntArray.reversed(): List<Int> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun LongArray.reversed(): List<Long> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun FloatArray.reversed(): List<Float> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun DoubleArray.reversed(): List<Double> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun BooleanArray.reversed(): List<Boolean> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun CharArray.reversed(): List<Char> {\n    if (isEmpty()) return emptyList()\n    val list = toMutableList()\n    list.reverse()\n    return list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun <T> Array<T>.reversedArray(): Array<T> {\n    if (isEmpty()) return this\n    val result = arrayOfNulls(this, size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun ByteArray.reversedArray(): ByteArray {\n    if (isEmpty()) return this\n    val result
 = ByteArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun ShortArray.reversedArray(): ShortArray {\n    if (isEmpty()) return this\n    val result = ShortArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun IntArray.reversedArray(): IntArray {\n    if (isEmpty()) return this\n    val result = IntArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun LongArray.reversedArray(): LongArray {\n    if (isEmpty()) return this\n    val result = LongArray(size)\n    val lastIndex
 = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun FloatArray.reversedArray(): FloatArray {\n    if (isEmpty()) return this\n    val result = FloatArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n    return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun DoubleArray.reversedArray(): DoubleArray {\n    if (isEmpty()) return this\n    val result = DoubleArray(size)\n    val lastIndex = lastIndex\n    for (i in 0..lastIndex)\n        result[lastIndex - i] = this[i]\n
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return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun BooleanArray.reversedArray(): BooleanArray {\n if (isEmpty()) return this\n val result = BooleanArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n */\npublic fun CharArray.reversedArray(): CharArray {\n if (isEmpty()) return this\n val result = CharArray(size)\n val lastIndex = lastIndex\n for (i in 0..lastIndex)\n result[lastIndex - i] = this[i]\n return result\n}\n\n/**\n * Sorts elements in the array in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortBy(crossinline selector: (T) -> R?): Unit {\n if (size > 1) sortWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the array in-place descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n if (size > 1) sortWith(compareByDescending(selector))\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sortDescending(): Unit {\n sortWith(reverseOrder())\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun ByteArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun ShortArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun IntArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun LongArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun FloatArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun DoubleArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\npublic fun CharArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sorted(): List<T> {\n return sortedArray().asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun ByteArray.sorted(): List<Byte> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun ShortArray.sorted(): List<Short> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun IntArray.sorted(): List<Int> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun LongArray.sorted(): List<Long> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun FloatArray.sorted(): List<Float> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun DoubleArray.sorted(): List<Double> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\npublic fun CharArray.sorted(): List<Char> {\n return toTypedArray().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after

sorting.\n */\npublic fun <T : Comparable<T>> Array<T>.sortedArray(): Array<T> {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun ByteArray.sortedArray(): ByteArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun ShortArray.sortedArray(): ShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun IntArray.sortedArray(): IntArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun LongArray.sortedArray():
LongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun FloatArray.sortedArray():
FloatArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\npublic fun
DoubleArray.sortedArray(): DoubleArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sort()
}\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n
*/\npublic fun CharArray.sortedArray(): CharArray {\n if (isEmpty()) return this\n return this.copyOf().apply {
sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements
preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>>
Array<T>.sortedArrayDescending(): Array<T> {\n if (isEmpty()) return this\n return this.copyOf().apply {
sortWith(reverseOrder()) }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending
according to their natural sort order.\n */\npublic fun ByteArray.sortedArrayDescending(): ByteArray {\n if
(isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all
elements of this array sorted descending according to their natural sort order.\n */\npublic fun
ShortArray.sortedArrayDescending(): ShortArray {\n if (isEmpty()) return this\n return this.copyOf().apply {
sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to
their natural sort order.\n */\npublic fun IntArray.sortedArrayDescending(): IntArray {\n if (isEmpty()) return
this\n
return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array
sorted descending according to their natural sort order.\n */\npublic fun LongArray.sortedArrayDescending():
LongArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns
an array with all elements of this array sorted descending according to their natural sort order.\n */\npublic fun
FloatArray.sortedArrayDescending(): FloatArray {\n if (isEmpty()) return this\n return this.copyOf().apply {
sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to
their natural sort order.\n */\npublic fun DoubleArray.sortedArrayDescending(): DoubleArray {\n if (isEmpty())
return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of
this array sorted descending according to their natural sort order.\n */\npublic fun
CharArray.sortedArrayDescending():
CharArray {\n if (isEmpty()) return this\n return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns
an array with all elements of this array sorted according the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Array<out
T>.sortedArrayWith(comparator: Comparator<in T>): Array<out T> {\n if (isEmpty()) return this\n return
this.copyOf().apply { sortWith(comparator) }\n}\n\n/**\n * Returns a list of all elements sorted according to natural
sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal
elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>>
Array<out T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n return
sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements

sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ByteArray.sortedBy(crossinline selector: (Byte) -> R?): List<Byte> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ShortArray.sortedBy(crossinline selector: (Short) -> R?): List<Short> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> IntArray.sortedBy(crossinline selector: (Int) -> R?): List<Int> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> LongArray.sortedBy(crossinline selector: (Long) -> R?): List<Long> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> FloatArray.sortedBy(crossinline selector: (Float) -> R?): List<Float> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> DoubleArray.sortedBy(crossinline selector: (Double) -> R?): List<Double> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> BooleanArray.sortedBy(crossinline selector: (Boolean) -> R?): List<Boolean> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> CharArray.sortedBy(crossinline selector: (Char) -> R?): List<Char> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ByteArray.sortedByDescending(crossinline selector: (Byte) -> R?): List<Byte> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> ShortArray.sortedByDescending(crossinline selector: (Short) -> R?): List<Short> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> IntArray.sortedByDescending(crossinline selector: (Int) -> R?): List<Int> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> LongArray.sortedByDescending(crossinline selector: (Long) -> R?): List<Long> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> FloatArray.sortedByDescending(crossinline selector: (Float) -> R?): List<Float> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> DoubleArray.sortedByDescending(crossinline selector: (Double) -> R?): List<Double> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> BooleanArray.sortedByDescending(crossinline

selector: (Boolean) -> R?): List<Boolean> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n */\npublic inline fun <R : Comparable<R>> CharArray.sortedByDescending(crossinline selector: (Char) -> R?): List<Char> {\n   return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Array<out T>.sortedDescending(): List<T> {\n   return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun ByteArray.sortedDescending(): List<Byte> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n
 * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun ShortArray.sortedDescending(): List<Short> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun IntArray.sortedDescending(): List<Int> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun LongArray.sortedDescending(): List<Long> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun FloatArray.sortedDescending(): List<Float> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun DoubleArray.sortedDescending(): List<Double>
 {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n */\npublic fun CharArray.sortedDescending(): List<Char> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Array<out T>.sortedWith(comparator: Comparator<in T>): List<T> {\n   return sortedArrayWith(comparator).asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun ByteArray.sortedWith(comparator: Comparator<in Byte>): List<Byte> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun ShortArray.sortedWith(comparator:
 Comparator<in Short>): List<Short> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun IntArray.sortedWith(comparator: Comparator<in Int>): List<Int> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun LongArray.sortedWith(comparator: Comparator<in Long>): List<Long> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun FloatArray.sortedWith(comparator: Comparator<in Float>): List<Float> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun DoubleArray.sortedWith(comparator: Comparator<in Double>):
 List<Double> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun BooleanArray.sortedWith(comparator: Comparator<in Boolean>): List<Boolean> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n */\npublic fun CharArray.sortedWith(comparator: Comparator<in Char>): List<Char> {\n   return toTypedArray().apply { sortWith(comparator) }.asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun <T> Array<out T>.asList(): List<T>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun ByteArray.asList(): List<Byte>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun ShortArray.asList(): List<Short>\n\n/**\n * Returns a [List] that wraps the original array.\n

*/\npublic expect fun IntArray.asList(): List<Int>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun LongArray.asList(): List<Long>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun FloatArray.asList(): List<Float>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun DoubleArray.asList(): List<Double>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun BooleanArray.asList(): List<Boolean>\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic expect fun CharArray.asList(): List<Char>\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level the behavior is undefined.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T> Array<out T>.contentDeepHashCode(): Int\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T> Array<out T>.contentDeepToString(): String\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun ByteArray.contentEquals(other: ByteArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun ShortArray.contentEquals(other: ShortArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun IntArray.contentEquals(other: IntArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun LongArray.contentEquals(other: LongArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun FloatArray.contentEquals(other: FloatArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun DoubleArray.contentEquals(other: DoubleArray):

Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality
with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\npublic expect infix fun CharArray.contentEquals(other: CharArray): Boolean\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T> Array<out T>.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun ByteArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun ShortArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun IntArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if
it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun LongArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun FloatArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun DoubleArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun BooleanArray.contentHashCode(): Int\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\npublic expect fun CharArray.contentHashCode(): Int\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T> Array<out
T>.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun ByteArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun ShortArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun IntArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@SinceKotlin(\"1.1\")\npublic expect fun LongArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun FloatArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n
*/\n@SinceKotlin(\"1.1\")\npublic expect fun DoubleArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun BooleanArray.contentToString(): String\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample
samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\npublic expect fun CharArray.contentToString(): String\n\n/**\n * Copies this array or its subrange into the [destination] array and

returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting
at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T>\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex]
is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the
end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset
the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array
in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws

IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\npublic expect fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray\n\n/**\n * Returns new array which

is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.copyOf(): Array<T>\n\n/**\n * Returns
new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun ByteArray.copyOf(): ByteArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun ShortArray.copyOf(): ShortArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun IntArray.copyOf(): IntArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun LongArray.copyOf(): LongArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun FloatArray.copyOf(): FloatArray\n\n/**\n * Returns new array which is a copy of the original array.\n
* \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun DoubleArray.copyOf(): DoubleArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun BooleanArray.copyOf(): BooleanArray\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic expect fun CharArray.copyOf(): CharArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n
*/\npublic expect fun ByteArray.copyOf(newSize: Int): ByteArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun ShortArray.copyOf(newSize: Int): ShortArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize]
is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun IntArray.copyOf(newSize: Int): IntArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun LongArray.copyOf(newSize: Int): LongArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end
with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun FloatArray.copyOf(newSize: Int): FloatArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n

* \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun DoubleArray.copyOf(newSize:
Int): DoubleArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `false` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun BooleanArray.copyOf(newSize: Int): BooleanArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with null char (`\\u0000`) values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the
extra elements in the copy array are filled with null char (`\\u0000`) values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic expect fun CharArray.copyOf(newSize: Int): CharArray\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.copyOf(newSize: Int): Array<T?>\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive),
must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T>\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray\n\n/**\n * Returns a new array which
is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun FloatArray.copyOfRange(fromIndex:
Int, toIndex: Int): FloatArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n

*/\npublic expect fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic expect fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun <T> Array<T>.fill(element: T, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun LongArray.fill(element: Long, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex]

is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\npublic expect fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val <T> Array<out T>.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val ByteArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val ShortArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val IntArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val LongArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val FloatArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val DoubleArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val BooleanArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns the range of valid indices for the array.\n */\npublic val CharArray.indices: IntRange\n   get() = IntRange(0, lastIndex)\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isEmpty(): Boolean {\n   return size == 0\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if the array is not empty.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.isNotEmpty(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns the last valid index for the array.\n */\npublic val <T> Array<out T>.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val ByteArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val ShortArray.lastIndex: Int\n   get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val IntArray.lastIndex: Int\n   get() = size - 1\n\n/**\n

* Returns the last valid index for the array.\n */\npublic val LongArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val FloatArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val DoubleArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val BooleanArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns the last valid index for the array.\n */\npublic val CharArray.lastIndex: Int\n get() = size - 1\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect operator fun <T> Array<T>.plus(element: T): Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun ByteArray.plus(element: Byte): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun ShortArray.plus(element: Short): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun IntArray.plus(element: Int): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun LongArray.plus(element: Long): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun FloatArray.plus(element: Float): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun DoubleArray.plus(element: Double): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun BooleanArray.plus(element: Boolean): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\npublic expect operator fun CharArray.plus(element: Char): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect operator fun <T> Array<T>.plus(elements: Collection<T>): Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun ShortArray.plus(elements: Collection<Short>): ShortArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun IntArray.plus(elements: Collection<Int>): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun LongArray.plus(elements: Collection<Long>): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun FloatArray.plus(elements: Collection<Float>): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic expect operator fun CharArray.plus(elements: Collection<Char>): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect operator fun <T> Array<T>.plus(elements: Array<out T>): Array<T>\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun ByteArray.plus(elements: ByteArray): ByteArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun ShortArray.plus(elements: ShortArray): ShortArray\n\n/**\n * Returns an array containing all elements of the original

array and then all elements of the given [elements] array.\n */\npublic expect operator fun IntArray.plus(elements: IntArray): IntArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun LongArray.plus(elements: LongArray): LongArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun FloatArray.plus(elements: FloatArray): FloatArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray\n\n/**\n *
Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\npublic expect operator fun CharArray.plus(elements: CharArray): CharArray\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NO_ACTUAL_FOR_EXPECT\")\npublic expect fun <T> Array<T>.plusElement(element: T): Array<T>\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun IntArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun LongArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun ByteArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun ShortArray.sort(): Unit\n\n/**\n
* Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun DoubleArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun FloatArray.sort(): Unit\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic expect fun CharArray.sort(): Unit\n\n/**\n * Sorts the array in-place according to the natural order of its elements.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n */\npublic expect fun <T : Comparable<T>> Array<out T>.sort(): Unit\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic
expect fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit\n\n/**\n * Returns an array of Boolean containing all of the elements of this generic array.\n */\npublic fun Array<out Boolean>.toBooleanArray(): BooleanArray {\n   return BooleanArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Byte containing all of the elements of this generic array.\n */\npublic fun Array<out Byte>.toByteArray(): ByteArray {\n   return ByteArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Char containing all of the elements of this generic array.\n */\npublic fun Array<out Char>.toCharArray(): CharArray {\n   return CharArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Double containing all of the elements of this generic array.\n */\npublic fun Array<out Double>.toDoubleArray(): DoubleArray {\n   return DoubleArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Float containing all of the elements of
this generic array.\n */\npublic fun Array<out Float>.toFloatArray(): FloatArray {\n   return FloatArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Int containing all of the elements of this generic array.\n */\npublic fun Array<out Int>.toIntArray(): IntArray {\n   return IntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Long containing all of the elements of this generic array.\n */\npublic fun Array<out Long>.toLongArray(): LongArray {\n   return LongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of Short containing all of the elements of this generic array.\n */\npublic fun Array<out Short>.toShortArray(): ShortArray {\n   return ShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun ByteArray.toTypedArray(): Array<Byte>\n\n/**\n * Returns a *typed* object array containing all of the elements of this

primitive array.\n */\npublic expect fun ShortArray.toTypedArray(): Array<Short>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun IntArray.toTypedArray(): Array<Int>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun LongArray.toTypedArray(): Array<Long>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun FloatArray.toTypedArray(): Array<Float>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun DoubleArray.toTypedArray(): Array<Double>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic expect fun BooleanArray.toTypedArray(): Array<Boolean>\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic
expect fun CharArray.toTypedArray(): Array<Char>\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <T, K, V> Array<out T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> ByteArray.associate(transform: (Byte) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> ShortArray.associate(transform: (Short) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> IntArray.associate(transform:
(Int) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> LongArray.associate(transform: (Long) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic
inline fun <K, V> FloatArray.associate(transform: (Float) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> DoubleArray.associate(transform: (Double) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the

map.\n * \n * The returned map preserves
the entry iteration order of the original array.\n */\npublic inline fun <K, V> BooleanArray.associate(transform: (Boolean) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to elements of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> CharArray.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would
have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <T, K> Array<out T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> ByteArray.associateBy(keySelector: (Byte) -> K): Map<K, Byte> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Byte>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing
the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> ShortArray.associateBy(keySelector: (Short) -> K): Map<K, Short> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Short>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> IntArray.associateBy(keySelector: (Int) -> K): Map<K, Int> {\n
    val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Int>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> LongArray.associateBy(keySelector: (Long) -> K): Map<K, Long> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Long>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned
map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> FloatArray.associateBy(keySelector: (Float) -> K): Map<K, Float> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return associateByTo(LinkedHashMap<K, Float>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> DoubleArray.associateBy(keySelector: (Double) -> K): Map<K, Double> {\n   val capacity = mapCapacity(size).coerceAtLeast(16)\n   return

associateByTo(LinkedHashMap<K, Double>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector]
function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> BooleanArray.associateBy(keySelector: (Boolean) -> K): Map<K, Boolean> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Boolean>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the elements from the given array indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K> CharArray.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <T, K, V> Array<out T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> ByteArray.associateBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> ShortArray.associateBy(keySelector: (Short) -> K, valueTransform: (Short) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform]
and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> IntArray.associateBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> LongArray.associateBy(keySelector: (Long) -> K, valueTransform:
(Long) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> FloatArray.associateBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by

[valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> DoubleArray.associateBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> BooleanArray.associateBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K,
V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original array.\n */\npublic inline fun <K, V> CharArray.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n val capacity = mapCapacity(size).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets
added to the map.\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Byte>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied
to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Short>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Int>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n
return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Long>> LongArray.associateByTo(destination: M, keySelector: (Long) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K,

in Float>>
FloatArray.associateByTo(destination: M, keySelector: (Float) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Double>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element
itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Boolean>> BooleanArray.associateByTo(destination: M, keySelector: (Boolean) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given array\n * and value is the element itself.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Char>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns
the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun
<K, V, M : MutableMap<in K, in V>> ByteArray.associateByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value
pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateByTo(destination:

M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateByTo(destination: M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by
the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateByTo(destination:
M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given array.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element
of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Array<out T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ByteArray.associateTo(destination: M, transform: (Byte) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element
of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> ShortArray.associateTo(destination: M, transform: (Short) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> IntArray.associateTo(destination: M, transform: (Int) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given

array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> LongArray.associateTo(destination: M, transform: (Long) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> FloatArray.associateTo(destination: M, transform: (Float) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n
* \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> DoubleArray.associateTo(destination: M, transform: (Double) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> BooleanArray.associateTo(destination: M, transform: (Boolean) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given array.\n
* \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharArray.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <T, C : MutableCollection<in T>> Array<out T>.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Byte>> ByteArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Short>> ShortArray.toCollection(destination:
C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Int>> IntArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Long>> LongArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Float>> FloatArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Double>> DoubleArray.toCollection(destination:
C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Boolean>> BooleanArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>> CharArray.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun <T> Array<out T>.toHashSet(): HashSet<T> {\n return toCollection(HashSet<T>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun ByteArray.toHashSet(): HashSet<Byte> {\n return toCollection(HashSet<Byte>(mapCapacity(size)))\n}\n\n/**\n * Returns

a [HashSet] of all elements.\n */\npublic fun ShortArray.toHashSet(): HashSet<Short> {\n   return toCollection(HashSet<Short>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun IntArray.toHashSet(): HashSet<Int> {\n   return toCollection(HashSet<Int>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun LongArray.toHashSet(): HashSet<Long> {\n   return toCollection(HashSet<Long>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun FloatArray.toHashSet(): HashSet<Float> {\n   return toCollection(HashSet<Float>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun DoubleArray.toHashSet(): HashSet<Double> {\n   return toCollection(HashSet<Double>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun BooleanArray.toHashSet(): HashSet<Boolean> {\n   return toCollection(HashSet<Boolean>(mapCapacity(size)))\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun CharArray.toHashSet(): HashSet<Char> {\n   return toCollection(HashSet<Char>(mapCapacity(size)))\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun <T> Array<out T>.toList(): List<T> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun ByteArray.toList(): List<Byte> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun ShortArray.toList(): List<Short> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun IntArray.toList(): List<Int> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun LongArray.toList(): List<Long> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun FloatArray.toList(): List<Float> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun DoubleArray.toList(): List<Double> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun BooleanArray.toList(): List<Boolean> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun CharArray.toList(): List<Char> {\n   return when (size) {\n   0 -> emptyList()\n   1 -> listOf(this[0])\n   else -> this.toMutableList()\n   }\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun <T> Array<out T>.toMutableList(): MutableList<T> {\n   return ArrayList(this.asCollection())\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun ByteArray.toMutableList(): MutableList<Byte> {\n   val list = ArrayList<Byte>(size)\n   for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun ShortArray.toMutableList(): MutableList<Short> {\n   val list = ArrayList<Short>(size)\n   for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun IntArray.toMutableList(): MutableList<Int> {\n   val list = ArrayList<Int>(size)\n   for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun LongArray.toMutableList(): MutableList<Long> {\n   val list = ArrayList<Long>(size)\n   for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun FloatArray.toMutableList(): MutableList<Float> {\n   val list = ArrayList<Float>(size)\n   for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun DoubleArray.toMutableList(): MutableList<Double> {\n   val list = ArrayList<Double>(size)\n   for (item in this) list.add(item)\n   return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun BooleanArray.toMutableList():

MutableList<Boolean> {\n val list = ArrayList<Boolean>(size)\n for (item in this) list.add(item)\n return list\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this array.\n */\npublic fun CharArray.toMutableList(): MutableList<Char> {\n val list = ArrayList<Char>(size)\n for (item in this) list.add(item)\n return list\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun <T> Array<out T>.toSet(): Set<T> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ByteArray.toSet(): Set<Byte> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Byte>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ShortArray.toSet(): Set<Short> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Short>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun IntArray.toSet(): Set<Int> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Int>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun LongArray.toSet(): Set<Long> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Long>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun FloatArray.toSet(): Set<Float> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Float>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun DoubleArray.toSet(): Set<Double> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Double>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun BooleanArray.toSet(): Set<Boolean> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Boolean>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun CharArray.toSet(): Set<Char> {\n return when (size) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Char>(mapCapacity(size)))\n }\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <T, R> Array<out T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> ByteArray.flatMap(transform: (Byte) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> ShortArray.flatMap(transform: (Short) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> IntArray.flatMap(transform: (Int) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> LongArray.flatMap(transform: (Long) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> FloatArray.flatMap(transform: (Float) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results

of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> DoubleArray.flatMap(transform: (Double) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> BooleanArray.flatMap(transform: (Boolean) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\npublic inline fun <R> CharArray.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(),
transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.flatMapTo(destination: C, transform: (Byte) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array,
to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.flatMapTo(destination: C, transform: (Short) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> IntArray.flatMapTo(destination: C, transform: (Int) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> LongArray.flatMapTo(destination: C, transform: (Long) -> Iterable<R>):
C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.flatMapTo(destination: C, transform: (Float) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.flatMapTo(destination: C, transform: (Double) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n
* Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.flatMapTo(destination: C, transform: (Boolean) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where
each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K> Array<out T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return groupByTo(LinkedHashMap<K,

MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> ByteArray.groupBy(keySelector: (Byte) -> K): Map<K, List<Byte>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Byte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> ShortArray.groupBy(keySelector: (Short) -> K): Map<K, List<Short>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Short>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> IntArray.groupBy(keySelector: (Int) -> K): Map<K, List<Int>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Int>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> LongArray.groupBy(keySelector: (Long) -> K): Map<K, List<Long>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Long>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration
order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> FloatArray.groupBy(keySelector: (Float) -> K): Map<K, List<Float>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Float>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> DoubleArray.groupBy(keySelector: (Double) -> K): Map<K, List<Double>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Double>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n *
applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> BooleanArray.groupBy(keySelector: (Boolean) -> K): Map<K, List<Boolean>> {\n   return groupByTo(LinkedHashMap<K, MutableList<Boolean>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> CharArray.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n   return groupByTo(LinkedHashMap<K,

MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Array<out T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> ByteArray.groupBy(keySelector: (Byte) -> K, valueTransform: (Byte) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> ShortArray.groupBy(keySelector: (Short)
-> K, valueTransform: (Short) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> IntArray.groupBy(keySelector: (Int) -> K, valueTransform: (Int) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector]
function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> LongArray.groupBy(keySelector: (Long) -> K, valueTransform: (Long) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> FloatArray.groupBy(keySelector: (Float) -> K, valueTransform: (Float) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> DoubleArray.groupBy(keySelector: (Double) -> K, valueTransform: (Double) -> V): Map<K, List<V>> {\n

return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> BooleanArray.groupBy(keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> CharArray.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in K, MutableList<T>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Byte>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Byte>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Short>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Short>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Int>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Int>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Long>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Long>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each

group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Float>>> FloatArray.groupByTo(destination: M, keySelector: (Float) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Float>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Double>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Double>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Boolean>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Boolean>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Char>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Array<out T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ByteArray.groupByTo(destination: M, keySelector: (Byte) -> K, valueTransform: (Byte) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ShortArray.groupByTo(destination: M, keySelector: (Short) -> K, valueTransform: (Short) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the

original array\n * by
the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> IntArray.groupByTo(destination: M, keySelector: (Int) -> K, valueTransform: (Int) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> LongArray.groupByTo(destination: M, keySelector: (Long) -> K, valueTransform: (Long) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> FloatArray.groupByTo(destination:
M, keySelector: (Float) -> K, valueTransform: (Float) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> DoubleArray.groupByTo(destination: M, keySelector: (Double) -> K, valueTransform: (Double) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>()
}\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> BooleanArray.groupByTo(destination: M, keySelector: (Boolean) -> K, valueTransform: (Boolean) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n
* by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharArray.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Creates a [Grouping] source from an array to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K>

Array<out T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n return object : Grouping<T, K> {\n override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n override fun keyOf(element: T): K = keySelector(element)\n }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <T, R> Array<out T>.map(transform: (T) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> ByteArray.map(transform: (Byte) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying
the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> ShortArray.map(transform: (Short) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> IntArray.map(transform: (Int) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> LongArray.map(transform: (Long) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying
the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> FloatArray.map(transform: (Float) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> DoubleArray.map(transform: (Double) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> BooleanArray.map(transform: (Boolean) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results
of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <R> CharArray.map(transform: (Char) -> R): List<R> {\n return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R> Array<out T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns
the result of the transform applied to the element.\n */\npublic inline fun <R> ByteArray.mapIndexed(transform: (index: Int, Byte) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R> ShortArray.mapIndexed(transform: (index: Int, Short) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the

element.\n */\npublic inline
fun <R> IntArray.mapIndexed(transform: (index: Int, Int) -> R): List<R> {\n return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the
given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function
that takes the index of an element and the element itself\n * and returns the result of the transform applied to the
element.\n */\npublic inline fun <R> LongArray.mapIndexed(transform: (index: Int, Long) -> R): List<R> {\n
return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying
the given [transform] function\n * to each element and its index in the original array.\n * @param [transform]
function that takes the index of an element and the element itself\n * and returns the result of the transform applied
to the element.\n */\npublic inline fun <R> FloatArray.mapIndexed(transform: (index: Int, Float) -> R): List<R>
{\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of
applying the given [transform] function\n * to each element and its index in the original array.\n * @param
[transform] function that takes the index of an element and the element itself\n * and returns the result of the
transform applied to the element.\n */\npublic inline fun <R> DoubleArray.mapIndexed(transform: (index: Int,
Double) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list
containing the results of applying the given [transform] function\n * to each element and its index in the original
array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the
result of the transform applied to the element.\n */\npublic inline fun <R> BooleanArray.mapIndexed(transform:
(index: Int, Boolean) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n
* Returns a list containing the results of applying the given [transform] function\n * to each element and its index in
the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <R>
CharArray.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n return
mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of
applying the given [transform] function\n * to each element and its index in the original array.\n * @param
[transform] function that takes the index of an element and the element itself\n * and returns the result of the
transform applied to the element.\n */\npublic inline fun <T, R : Any> Array<out
T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n return
mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function
to each element and its index in the original array\n * and appends only the non-null results to the given
[destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and
returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any, C :
MutableCollection<in R>> Array<out T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?):
C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n return
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n
* and appends the results to the given [destination].\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline
fun <T, R, C : MutableCollection<in R>> Array<out T>.mapIndexedTo(destination: C, transform: (index: Int,
T) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n
* and appends the results to the given [destination].\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline
fun <R, C : MutableCollection<in R>> ByteArray.mapIndexedTo(destination: C, transform: (index: Int, Byte) ->
R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return
destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n
* and appends the results to the given [destination].\n * @param [transform] function that takes the index of an
element and the element itself\n * and returns the result of the transform

applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.mapIndexedTo(destination: C, transform: (index: Int, Short) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> IntArray.mapIndexedTo(destination: C, transform: (index: Int, Int) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> LongArray.mapIndexedTo(destination: C, transform: (index: Int, Long) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.mapIndexedTo(destination: C, transform: (index: Int, Float) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.mapIndexedTo(destination: C, transform: (index: Int, Double) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapIndexedTo(destination: C, transform: (index: Int, Boolean) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element in the original array.\n */\npublic inline fun <T, R : Any> Array<out T>.mapNotNull(transform: (T) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element in the original array\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Array<out T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Array<out T>.mapTo(destination: C, transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ByteArray.mapTo(destination: C, transform: (Byte) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and

appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> ShortArray.mapTo(destination: C, transform: (Short) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> IntArray.mapTo(destination: C, transform: (Int) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> LongArray.mapTo(destination: C, transform: (Long) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> FloatArray.mapTo(destination: C, transform: (Float) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> DoubleArray.mapTo(destination: C, transform: (Double) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of
the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> BooleanArray.mapTo(destination: C, transform: (Boolean) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharArray.mapTo(destination: C, transform: (Char) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun <T> Array<out T>.withIndex(): Iterable<IndexedValue<T>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element
of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun ByteArray.withIndex(): Iterable<IndexedValue<Byte>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun ShortArray.withIndex(): Iterable<IndexedValue<Short>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun IntArray.withIndex(): Iterable<IndexedValue<Int>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun LongArray.withIndex(): Iterable<IndexedValue<Long>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun FloatArray.withIndex(): Iterable<IndexedValue<Float>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun DoubleArray.withIndex(): Iterable<IndexedValue<Double>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun BooleanArray.withIndex(): Iterable<IndexedValue<Boolean>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun CharArray.withIndex(): Iterable<IndexedValue<Char>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n *\n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun <T>

Array<out T>.distinct(): List<T> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun ByteArray.distinct(): List<Byte> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun ShortArray.distinct(): List<Short> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun IntArray.distinct(): List<Int> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun LongArray.distinct(): List<Long> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun FloatArray.distinct(): List<Float> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun DoubleArray.distinct(): List<Double> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun BooleanArray.distinct(): List<Boolean> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only distinct elements from the given array.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic fun CharArray.distinct(): List<Char> {\n   return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <T, K> Array<out T>.distinctBy(selector: (T) -> K): List<T> {\n   val set = HashSet<K>()\n   val list = ArrayList<T>()\n   for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n   list.add(e)\n   }\n   return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> ByteArray.distinctBy(selector: (Byte) -> K): List<Byte> {\n   val set = HashSet<K>()\n   val list = ArrayList<Byte>()\n   for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n   list.add(e)\n   }\n   return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> ShortArray.distinctBy(selector: (Short) -> K): List<Short> {\n   val set = HashSet<K>()\n   val list = ArrayList<Short>()\n   for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n   list.add(e)\n   }\n   return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> IntArray.distinctBy(selector: (Int) -> K): List<Int> {\n   val set = HashSet<K>()\n   val list = ArrayList<Int>()\n   for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n   list.add(e)\n   }\n   return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> LongArray.distinctBy(selector: (Long) -> K): List<Long> {\n   val set = HashSet<K>()\n   val list = ArrayList<Long>()\n   for (e in this) {\n   val key = selector(e)\n   if (set.add(key))\n   list.add(e)\n   }\n   return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> FloatArray.distinctBy(selector: (Float) -> K): List<Float> {\n   val set = HashSet<K>()\n   val list = ArrayList<Float>()\n   for (e in this) {\n   val key = selector(e)\n   if

(set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct
keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> DoubleArray.distinctBy(selector: (Double) -> K): List<Double> {\n val set = HashSet<K>()\n val list = ArrayList<Double>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> BooleanArray.distinctBy(selector: (Boolean) -> K): List<Boolean> {\n val set = HashSet<K>()\n val list = ArrayList<Boolean>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a list containing
only elements from the given array\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source array.\n */\npublic inline fun <K> CharArray.distinctBy(selector: (Char) -> K): List<Char> {\n val set = HashSet<K>()\n val list = ArrayList<Char>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun <T> Array<out T>.intersect(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing
all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun ByteArray.intersect(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun ShortArray.intersect(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by
both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun IntArray.intersect(other: Iterable<Int>): Set<Int> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun LongArray.intersect(other: Iterable<Long>): Set<Long> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n
* \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun FloatArray.intersect(other: Iterable<Float>): Set<Float> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun DoubleArray.intersect(other: Iterable<Double>): Set<Double> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves

the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun BooleanArray.intersect(other: Iterable<Boolean>): Set<Boolean> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by both this array and the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun CharArray.intersect(other: Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun <T> Array<out T>.subtract(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ByteArray.subtract(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun ShortArray.subtract(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun IntArray.subtract(other: Iterable<Int>): Set<Int> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun LongArray.subtract(other: Iterable<Long>): Set<Long> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun FloatArray.subtract(other: Iterable<Float>): Set<Float> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun DoubleArray.subtract(other: Iterable<Double>): Set<Double> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun BooleanArray.subtract(other: Iterable<Boolean>): Set<Boolean> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this array and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic infix fun CharArray.subtract(other: Iterable<Char>): Set<Char> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun <T> Array<out T>.toMutableSet(): MutableSet<T> {\n val set = LinkedHashSet<T>(mapCapacity(size))\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ByteArray.toMutableSet(): MutableSet<Byte> {\n val set = LinkedHashSet<Byte>(mapCapacity(size))\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun ShortArray.toMutableSet(): MutableSet<Short> {\n val set = LinkedHashSet<Short>(mapCapacity(size))\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The

returned set preserves the element iteration order of the original array.\n */\npublic fun IntArray.toMutableSet(): MutableSet<Int> {\n val set = LinkedHashSet<Int>(mapCapacity(size))\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun LongArray.toMutableSet(): MutableSet<Long> {\n val set = LinkedHashSet<Long>(mapCapacity(size))\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements
from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun FloatArray.toMutableSet(): MutableSet<Float> {\n val set = LinkedHashSet<Float>(mapCapacity(size))\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun DoubleArray.toMutableSet(): MutableSet<Double> {\n val set = LinkedHashSet<Double>(mapCapacity(size))\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun BooleanArray.toMutableSet(): MutableSet<Boolean> {\n val set = LinkedHashSet<Boolean>(mapCapacity(size))\n for (item in this) set.add(item)\n return set\n}\n\n/**\n
* Returns a mutable set containing all distinct elements from the given array.\n * \n * The returned set preserves the element iteration order of the original array.\n */\npublic fun CharArray.toMutableSet(): MutableSet<Char> {\n val set = LinkedHashSet<Char>(mapCapacity(size))\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun <T> Array<out T>.union(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned
set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun ByteArray.union(other: Iterable<Byte>): Set<Byte> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun ShortArray.union(other: Iterable<Short>): Set<Short> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n
* Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun IntArray.union(other: Iterable<Int>): Set<Int> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun LongArray.union(other: Iterable<Long>):
Set<Long> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun FloatArray.union(other: Iterable<Float>): Set<Float> {\n val set =

this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements
 that are contained in both collections use [intersect].\n */\npublic infix fun DoubleArray.union(other: Iterable<Double>): Set<Double> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun BooleanArray.union(other: Iterable<Boolean>): Set<Boolean> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original array.\n * Those elements of the [other] collection that are unique
 are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun CharArray.union(other: Iterable<Char>): Set<Char> {\n   val set = this.toMutableSet()\n   set.addAll(other)\n   return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Array<out T>.all(predicate: (T) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun ByteArray.all(predicate: (Byte) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n
 * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun ShortArray.all(predicate: (Short) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun IntArray.all(predicate: (Int) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun LongArray.all(predicate: (Long) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun FloatArray.all(predicate:
 (Float) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun DoubleArray.all(predicate: (Double) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun BooleanArray.all(predicate: (Boolean) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharArray.all(predicate: (Char) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element))
 return false\n   return true\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Array<out T>.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun ByteArray.any(): Boolean {\n   return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun ShortArray.any(): Boolean {\n   return

!isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun IntArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun LongArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun FloatArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun DoubleArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun BooleanArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun CharArray.any(): Boolean {\n return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Array<out T>.any(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun ByteArray.any(predicate: (Byte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun ShortArray.any(predicate: (Short) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun IntArray.any(predicate: (Int) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun LongArray.any(predicate: (Long) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun FloatArray.any(predicate: (Float) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun DoubleArray.any(predicate: (Double) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun BooleanArray.any(predicate: (Boolean) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun CharArray.any(predicate: (Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Array<out T>.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.count(): Int {\n

return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun BooleanArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements in this array.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.count(): Int {\n return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun <T> Array<out T>.count(predicate: (T) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun ByteArray.count(predicate: (Byte) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun ShortArray.count(predicate: (Short) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun IntArray.count(predicate: (Int) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun LongArray.count(predicate: (Long) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun FloatArray.count(predicate: (Float) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun DoubleArray.count(predicate: (Double) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun BooleanArray.count(predicate: (Boolean) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun CharArray.count(predicate: (Char) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <T, R> Array<out T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> ByteArray.fold(initial: R, operation: (acc: R, Byte) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> ShortArray.fold(initial: R, operation: (acc: R, Short) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> IntArray.fold(initial: R, operation: (acc: R, Int) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> LongArray.fold(initial: R, operation: (acc: R, Long) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> FloatArray.fold(initial: R, operation: (acc: R, Float) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]

value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> DoubleArray.fold(initial: R, operation: (acc: R, Double) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> BooleanArray.fold(initial: R, operation: (acc: R, Boolean) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <R> CharArray.fold(initial: R, operation: (acc: R, Char) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of
an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Byte) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Short) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic
inline fun <R> IntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Int) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Long) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current
accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Float) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(index++, accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> DoubleArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Double) -> R): R {\n   var index

= 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Boolean) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that
takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline
fun <R> ByteArray.foldRight(initial: R, operation: (Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> ShortArray.foldRight(initial: R, operation: (Short, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> IntArray.foldRight(initial: R, operation: (Int, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index
>= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> LongArray.foldRight(initial: R, operation: (Long, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> FloatArray.foldRight(initial: R, operation: (Float, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with
[initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> DoubleArray.foldRight(initial: R, operation: (Double, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> BooleanArray.foldRight(initial: R, operation: (Boolean, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <R> CharArray.foldRight(initial:
R, operation: (Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with

its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Array<out T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ByteArray.foldRightIndexed(initial: R, operation: (index: Int, Byte, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> ShortArray.foldRightIndexed(initial: R, operation: (index: Int, Short, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> IntArray.foldRightIndexed(initial: R, operation: (index: Int, Int, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> LongArray.foldRightIndexed(initial: R, operation: (index: Int, Long, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> FloatArray.foldRightIndexed(initial: R, operation: (index: Int, Float, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> DoubleArray.foldRightIndexed(initial: R, operation: (index: Int, Double, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> BooleanArray.foldRightIndexed(initial: R, operation: (index: Int, Boolean, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]

value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> CharArray.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun <T> Array<out T>.forEach(action: (T) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun ByteArray.forEach(action: (Byte) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun ShortArray.forEach(action: (Short) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun IntArray.forEach(action: (Int) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun LongArray.forEach(action: (Long) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun FloatArray.forEach(action: (Float) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun DoubleArray.forEach(action: (Double) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun BooleanArray.forEach(action: (Boolean) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element.\n */\npublic inline fun CharArray.forEach(action: (Char) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun <T> Array<out T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun ByteArray.forEachIndexed(action: (index: Int, Byte) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun ShortArray.forEachIndexed(action: (index: Int, Short) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun IntArray.forEachIndexed(action: (index: Int, Int) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun LongArray.forEachIndexed(action: (index: Int, Long) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun FloatArray.forEachIndexed(action: (index: Int, Float) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun DoubleArray.forEachIndexed(action: (index: Int, Double) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and

performs the desired action on the element.\n */\npublic inline fun BooleanArray.forEachIndexed(action: (index: Int, Boolean) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun CharArray.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n var index = 0\n for (item in this) action(index++, item)\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Array<out Double>.max(): Double? {\n if (isEmpty()) return null\n var max = this[0]\n if (max.isNaN()) return max\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Array<out Float>.max(): Float? {\n if (isEmpty()) return null\n var max = this[0]\n if (max.isNaN()) return max\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun <T : Comparable<T>> Array<out T>.max(): T? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun ByteArray.max(): Byte? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun ShortArray.max(): Short? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun IntArray.max(): Int? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun LongArray.max(): Long? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\npublic fun FloatArray.max(): Float? {\n if (isEmpty()) return null\n var max = this[0]\n if (max.isNaN()) return max\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\npublic fun DoubleArray.max(): Double? {\n if (isEmpty()) return null\n var max = this[0]\n if (max.isNaN()) return max\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun CharArray.max(): Char? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.maxBy(selector: (T) -> R): T? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>> ByteArray.maxBy(selector: (Byte) -> R): Byte? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n

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    var maxValue = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n
if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n *
Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n *
@sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
ShortArray.maxBy(selector: (Short) -> R): Short? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val
lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i
in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n
    maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value
of the given function or
 `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic
inline fun <R : Comparable<R>> IntArray.maxBy(selector: (Int) -> R): Int? {\n    if (isEmpty()) return null\n    var
maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =
selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)
{\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
LongArray.maxBy(selector: (Long) -> R): Long? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val
lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue
 = selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue <
v) {\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
FloatArray.maxBy(selector: (Float) -> R): Float? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val
lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i
in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n
    maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value
of the given function or `null` if there are no
 elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R :
Comparable<R>> DoubleArray.maxBy(selector: (Double) -> R): Double? {\n    if (isEmpty()) return null\n    var
maxElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =
selector(maxElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v)
{\n            maxElem = e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first
element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
BooleanArray.maxBy(selector: (Boolean) -> R): Boolean? {\n    if (isEmpty()) return null\n    var maxElem =
this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue =
selector(maxElem)\n
    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem
= e\n            maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element yielding the
largest value of the given function or `null` if there are no elements.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
CharArray.maxBy(selector: (Char) -> R): Char? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n    val
lastIndex = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i
in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n
    maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first element having the largest value
according to the provided [comparator] or `null` if there
 are no elements.\n */\npublic fun <T> Array<out T>.maxWith(comparator: Comparator<in T>): T? {\n    if
(isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if
```

(comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun ByteArray.maxWith(comparator: Comparator<in Byte>): Byte? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun ShortArray.maxWith(comparator: Comparator<in Short>): Short? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun IntArray.maxWith(comparator: Comparator<in Int>): Int? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun LongArray.maxWith(comparator: Comparator<in Long>): Long? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator]\n or `null` if there are no elements.\n */\npublic fun FloatArray.maxWith(comparator: Comparator<in Float>): Float? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun DoubleArray.maxWith(comparator: Comparator<in Double>): Double? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun BooleanArray.maxWith(comparator: Comparator<in Boolean>): Boolean? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun CharArray.maxWith(comparator: Comparator<in Char>): Char? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Array<out Double>.min(): Double? {\n if (isEmpty()) return null\n var min = this[0]\n if (min.isNaN()) return min\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest\n element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Array<out Float>.min(): Float? {\n if (isEmpty()) return null\n var min = this[0]\n if (min.isNaN()) return min\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun <T : Comparable<T>> Array<out T>.min(): T? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun ByteArray.min(): Byte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun ShortArray.min(): Short? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun IntArray.min(): Int? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there

are no elements.\n */\npublic fun LongArray.min(): Long? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\npublic fun FloatArray.min():
Float? {\n if (isEmpty()) return null\n var min = this[0]\n if (min.isNaN()) return min\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\npublic fun DoubleArray.min(): Double? {\n if (isEmpty()) return null\n var min = this[0]\n if (min.isNaN()) return min\n for (i in 1..lastIndex) {\n val e = this[i]\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun CharArray.min(): Char? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the first element yielding the smallest
value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <T, R : Comparable<R>> Array<out T>.minBy(selector: (T) -> R): T? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> ByteArray.minBy(selector: (Byte) -> R): Byte? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex
== 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> ShortArray.minBy(selector: (Short) -> R): Short? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the
given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> IntArray.minBy(selector: (Int) -> R): Int? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> LongArray.minBy(selector: (Long) -> R): Long? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n
var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> FloatArray.minBy(selector: (Float) -> R): Float? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in

1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or
`null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> DoubleArray.minBy(selector: (Double) -> R): Double? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> BooleanArray.minBy(selector: (Boolean) -> R): Boolean? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R : Comparable<R>> CharArray.minBy(selector: (Char) -> R): Char? {\n if (isEmpty()) return null\n var minElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return minElem\n var minValue = selector(minElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n }\n return minElem\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator]
or `null` if there are no elements.\n */\npublic fun <T> Array<out T>.minWith(comparator: Comparator<in T>): T? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun ByteArray.minWith(comparator: Comparator<in Byte>): Byte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun ShortArray.minWith(comparator: Comparator<in Short>): Short? {\n if (isEmpty()) return null\n var min = this[0]\n for (i
in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun IntArray.minWith(comparator: Comparator<in Int>): Int? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun LongArray.minWith(comparator: Comparator<in Long>): Long? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according
to the provided [comparator] or `null` if there are no elements.\n */\npublic fun FloatArray.minWith(comparator: Comparator<in Float>): Float? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun DoubleArray.minWith(comparator: Comparator<in Double>): Double? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun BooleanArray.minWith(comparator: Comparator<in Boolean>): Boolean? {\n if (isEmpty()) return

null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun CharArray.minWith(comparator: Comparator<in Char>): Char? {\n   if (isEmpty()) return null\n   var min = this[0]\n   for (i in 1..lastIndex) {\n   val e = this[i]\n   if (comparator.compare(min, e) > 0) min = e\n   }\n   return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Array<out T>.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun ByteArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has
no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun ShortArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun IntArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun LongArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun FloatArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun DoubleArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n
*/\npublic fun BooleanArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun CharArray.none(): Boolean {\n   return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Array<out T>.none(predicate: (T) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun ByteArray.none(predicate: (Byte) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n
* \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun ShortArray.none(predicate: (Short) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun IntArray.none(predicate: (Int) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun LongArray.none(predicate: (Long) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n
*/\npublic inline fun FloatArray.none(predicate: (Float) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun DoubleArray.none(predicate: (Double) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun BooleanArray.none(predicate: (Boolean) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun CharArray.none(predicate:

(Char) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <S, T : S> Array<out T>.reduce(operation: (acc: S, T) -> S): S {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun ByteArray.reduce(operation: (acc: Byte, Byte) -> Byte): Byte {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun ShortArray.reduce(operation: (acc: Short, Short) -> Short): Short {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun IntArray.reduce(operation: (acc: Int, Int) -> Int): Int {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun LongArray.reduce(operation: (acc: Long, Long) -> Long): Long {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun FloatArray.reduce(operation: (acc: Float, Float) -> Float): Float {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun DoubleArray.reduce(operation: (acc: Double, Double) -> Double): Double {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun BooleanArray.reduce(operation: (acc: Boolean, Boolean) -> Boolean): Boolean {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun CharArray.reduce(operation: (acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun <S, T : S> Array<out T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator: S = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n

return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun ByteArray.reduceIndexed(operation: (index: Int, acc: Byte, Byte) -> Byte): Byte {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex)
{\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun ShortArray.reduceIndexed(operation: (index: Int, acc: Short, Short) -> Short): Short {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with
its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun IntArray.reduceIndexed(operation: (index: Int, acc: Int, Int) -> Int): Int {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun LongArray.reduceIndexed(operation: (index: Int, acc: Long,
Long) -> Long): Long {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun FloatArray.reduceIndexed(operation: (index: Int, acc: Float, Float) -> Float): Float {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun DoubleArray.reduceIndexed(operation: (index: Int, acc: Double, Double) -> Double): Double {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes
the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun BooleanArray.reduceIndexed(operation: (index: Int, acc: Boolean, Boolean) -> Boolean): Boolean {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first

element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun CharArray.reduceIndexed(operation: (index: Int, acc: Char, Char) -> Char): Char {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <S, T : S> Array<out T>.reduceRight(operation: (T, acc: S) -> S): S {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator: S = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun ByteArray.reduceRight(operation: (Byte, acc: Byte) -> Byte): Byte {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun ShortArray.reduceRight(operation: (Short, acc: Short) -> Short): Short {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun IntArray.reduceRight(operation: (Int, acc: Int) -> Int): Int {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun LongArray.reduceRight(operation: (Long, acc: Long) -> Long): Long {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun FloatArray.reduceRight(operation: (Float, acc: Float) -> Float): Float {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun DoubleArray.reduceRight(operation: (Double, acc: Double) -> Double): Double {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun BooleanArray.reduceRight(operation: (Boolean, acc: Boolean) -> Boolean): Boolean {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun CharArray.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return

accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each
element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <S, T : S> Array<out T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator: S = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator
value.\n */\npublic inline fun ByteArray.reduceRightIndexed(operation: (index: Int, Byte, acc: Byte) -> Byte): Byte {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun ShortArray.reduceRightIndexed(operation: (index: Int, Short, acc: Short) -> Short): Short {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun IntArray.reduceRightIndexed(operation: (index: Int, Int, acc: Int) -> Int): Int {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying
[operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun LongArray.reduceRightIndexed(operation: (index: Int, Long, acc: Long) -> Long): Long {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value,
and calculates the next accumulator value.\n */\npublic inline fun FloatArray.reduceRightIndexed(operation: (index: Int, Float, acc: Float) -> Float): Float {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun DoubleArray.reduceRightIndexed(operation: (index: Int, Double, acc: Double) -> Double): Double {\n var index = lastIndex\n if (index < 0) throw

UnsupportedOperationException(\"Empty
array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun BooleanArray.reduceRightIndexed(operation: (index: Int, Boolean, acc: Boolean) -> Boolean): Boolean {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun CharArray.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun <T> Array<out T>.sumBy(selector: (T) -> Int): Int {\n var sum: Int = 0\n for (element in this)
{\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun ByteArray.sumBy(selector: (Byte) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun ShortArray.sumBy(selector: (Short) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun IntArray.sumBy(selector: (Int) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector]
function applied to each element in the array.\n */\npublic inline fun LongArray.sumBy(selector: (Long) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun FloatArray.sumBy(selector: (Float) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun DoubleArray.sumBy(selector: (Double) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun BooleanArray.sumBy(selector: (Boolean)
-> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun CharArray.sumBy(selector: (Char) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun <T> Array<out T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun ByteArray.sumByDouble(selector: (Byte) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun ShortArray.sumByDouble(selector: (Short) ->

Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun IntArray.sumByDouble(selector: (Int) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun LongArray.sumByDouble(selector: (Long) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns
the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun FloatArray.sumByDouble(selector: (Float) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun DoubleArray.sumByDouble(selector: (Double) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\npublic inline fun BooleanArray.sumByDouble(selector: (Boolean) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
applied to each element in the array.\n */\npublic inline fun CharArray.sumByDouble(selector: (Char) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n */\npublic fun <T : Any> Array<T?>.requireNoNulls(): Array<T> {\n for (element in this) {\n if (element == null) {\n throw IllegalArgumentException(\"null element found in $this.\")\n }\n }\n @Suppress(\"UNCHECKED_CAST\")\n return this as Array<T>\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun <T> Array<out T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>>
{\n val first = ArrayList<T>()\n val second = ArrayList<T>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun ByteArray.partition(predicate: (Byte) -> Boolean): Pair<List<Byte>, List<Byte>> {\n val first = ArrayList<Byte>()\n val second = ArrayList<Byte>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n
* while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun ShortArray.partition(predicate: (Short) -> Boolean): Pair<List<Short>, List<Short>> {\n val first = ArrayList<Short>()\n val second = ArrayList<Short>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun IntArray.partition(predicate: (Int) -> Boolean): Pair<List<Int>, List<Int>> {\n val first = ArrayList<Int>()\n val second = ArrayList<Int>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n
}\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun LongArray.partition(predicate: (Long) -> Boolean): Pair<List<Long>, List<Long>> {\n val first = ArrayList<Long>()\n val second = ArrayList<Long>()\n for

(element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun FloatArray.partition(predicate: (Float) -> Boolean): Pair<List<Float>, List<Float>> {\n val first = ArrayList<Float>()\n val second = ArrayList<Float>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun DoubleArray.partition(predicate: (Double) -> Boolean): Pair<List<Double>, List<Double>> {\n val first = ArrayList<Double>()\n val second = ArrayList<Double>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while
second list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun BooleanArray.partition(predicate: (Boolean) -> Boolean): Pair<List<Boolean>, List<Boolean>> {\n val first = ArrayList<Boolean>()\n val second = ArrayList<Boolean>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original array into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun CharArray.partition(predicate: (Char) -> Boolean): Pair<List<Char>, List<Char>> {\n val first = ArrayList<Char>()\n val second = ArrayList<Char>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Array<out T>.zip(other: Array<out R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ByteArray.zip(other: Array<out R>): List<Pair<Byte, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n
* \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> ShortArray.zip(other: Array<out R>): List<Pair<Short, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> IntArray.zip(other: Array<out R>): List<Pair<Int, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <R> LongArray.zip(other: Array<out R>): List<Pair<Long, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a
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{\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> LongArray.zip(other: LongArray, transform: (a: Long, b: Long) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n
*/\npublic inline fun <V> FloatArray.zip(other: FloatArray, transform: (a: Float, b: Float) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> DoubleArray.zip(other: DoubleArray, transform: (a: Double, b: Double) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built
from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> BooleanArray.zip(other: BooleanArray, transform: (a: Boolean, b: Boolean) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <V> CharArray.zip(other: CharArray, transform:
(a: Char, b: Char) -> V): List<V> {\n val size = minOf(size, other.size)\n val list = ArrayList<V>(size)\n for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable> Array<out T>.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count
> 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n buffer.appendElement(element, transform)\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n

buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> ByteArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Byte) -> CharSequence)? = null): A {\n buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   if (transform != null)\n   buffer.append(transform(element))\n   else\n buffer.append(element.toString())\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> ShortArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Short) -> CharSequence)? = null): A {\n   buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   if (transform != null)\n   buffer.append(transform(element))\n   else\n   buffer.append(element.toString())\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> IntArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Int) -> CharSequence)? = null): A {\n   buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   if (transform != null)\n   buffer.append(transform(element))\n   else\n   buffer.append(element.toString())\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first\n [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> LongArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Long) -> CharSequence)? = null): A {\n buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   if (transform != null)\n   buffer.append(transform(element))\n   else\n   buffer.append(element.toString())\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given\n [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> FloatArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix:

CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Float) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> DoubleArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Double) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> BooleanArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Boolean) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element.toString())\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <A : Appendable> CharArray.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Char) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n if (transform != null)\n buffer.append(transform(element))\n else\n buffer.append(element)\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T> Array<out T>.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample

samples.collections.Collections.Transformations.joinToString\n */\npublic fun ByteArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Byte) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun ShortArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Short) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun IntArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Int) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun LongArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Long) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun FloatArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Float) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun DoubleArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Double) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun BooleanArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Boolean) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative

value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun CharArray.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((Char) -> CharSequence)? = null): String {\n return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun <T> Array<out T>.asIterable(): Iterable<T> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun ByteArray.asIterable(): Iterable<Byte> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun ShortArray.asIterable(): Iterable<Short> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun IntArray.asIterable(): Iterable<Int> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun LongArray.asIterable(): Iterable<Long> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun FloatArray.asIterable(): Iterable<Float> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun DoubleArray.asIterable(): Iterable<Double> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun BooleanArray.asIterable(): Iterable<Boolean> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original array returning its elements when being iterated.\n */\npublic fun CharArray.asIterable(): Iterable<Char> {\n if (isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun <T> Array<out T>.asSequence(): Sequence<T> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ByteArray.asSequence(): Sequence<Byte> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun ShortArray.asSequence(): Sequence<Short> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun IntArray.asSequence(): Sequence<Int> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun LongArray.asSequence(): Sequence<Long> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun FloatArray.asSequence(): Sequence<Float> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun DoubleArray.asSequence(): Sequence<Double> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning

its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun BooleanArray.asSequence(): Sequence<Boolean> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original array returning its elements when being iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromArray\n */\npublic fun CharArray.asSequence(): Sequence<Char> {\n if (isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic
fun Array<out Byte>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Array<out Short>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun Array<out Int>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements
in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Array<out Long>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun Array<out Float>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Array<out Double>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n *
Returns an average value of elements in the array.\n */\npublic fun ByteArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun ShortArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun IntArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun LongArray.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun FloatArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the array.\n */\npublic fun DoubleArray.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n ++count\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun Array<out Byte>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return
sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun Array<out Short>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun Array<out Int>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in

the array.\n */\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Array<out Long>.sum(): Long {\n var sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic fun Array<out Float>.sum(): Float {\n var sum: Float = 0.0f\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns
the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Array<out Double>.sum(): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun ByteArray.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun ShortArray.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun IntArray.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun LongArray.sum(): Long {\n var sum: Long = 0L\n for (element in this) {\n sum += element\n
}\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun FloatArray.sum(): Float {\n var sum: Float = 0.0f\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\npublic fun DoubleArray.sum(): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"RangesKt\")\n\npackage kotlin.ranges\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns a random element from this range.\n * \n
* @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun IntRange.random(): Int {\n return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun LongRange.random(): Long {\n return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun CharRange.random(): Char {\n return random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun IntRange.random(random: Random): Int {\n try {\n return random.nextInt(this)\n } catch(e: IllegalArgumentException)
{\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun LongRange.random(random: Random): Long {\n try {\n return random.nextLong(this)\n } catch(e: IllegalArgumentException) {\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun CharRange.random(random: Random): Char {\n try {\n return random.nextInt(first.toInt(), last.toInt() + 1).toChar()\n } catch(e: IllegalArgumentException) {\n throw NoSuchElementException(e.message)\n }\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns
`false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun IntRange.contains(element: Int?): Boolean {\n return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is

`null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun LongRange.contains(element: Long?): Boolean {\n   return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun CharRange.contains(element: Char?): Boolean {\n   return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Byte): Boolean {\n   return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Byte): Boolean {\n   return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Byte): Boolean {\n   return contains(value.toShort())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Byte): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Byte): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Double): Boolean {\n   return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Double): Boolean {\n   return value.toLongExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Double): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Double): Boolean {\n   return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Double): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Float): Boolean {\n   return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Float): Boolean {\n   return value.toLongExactOrNull().let { if (it != null)

contains(it) else
false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Float): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Float): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Float): Boolean {\n return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Int): Boolean {\n return contains(value.toLong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Int): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Int): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating
point arguments has ambiguous semantics and is going to be
removed.\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Int): Boolean {\n return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Int): Boolean {\n return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Long): Boolean {\n return value.toIntExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic
operator fun ClosedRange<Byte>.contains(value: Long): Boolean {\n return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"shortRangeContains\")\npublic operator fun ClosedRange<Short>.contains(value: Long): Boolean {\n return value.toShortExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Long): Boolean {\n return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to
be removed.\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Long): Boolean {\n return contains(value.toFloat())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"intRangeContains\")\npublic operator fun ClosedRange<Int>.contains(value: Short): Boolean {\n return contains(value.toInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"longRangeContains\")\npublic operator fun ClosedRange<Long>.contains(value: Short): Boolean {\n return contains(value.toLong())\n}\n\n/**\n * Checks if

the specified [value] belongs to this range.\n */\n@kotlin.jvm.JvmName(\"byteRangeContains\")\npublic operator fun ClosedRange<Byte>.contains(value: Short): Boolean {\n   return value.toByteExactOrNull().let { if (it != null) contains(it) else false }\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"doubleRangeContains\")\npublic operator fun ClosedRange<Double>.contains(value: Short): Boolean {\n   return contains(value.toDouble())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@Deprecated(\"This `contains` operation mixing integer and floating point arguments has ambiguous semantics and is going to be removed.\")\n@kotlin.jvm.JvmName(\"floatRangeContains\")\npublic operator fun ClosedRange<Float>.contains(value: Short): Boolean {\n   return contains(value.toFloat())\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Byte): IntProgression {\n   return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Byte): LongProgression {\n   return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Byte): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Byte): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Char.downTo(to: Char): CharProgression {\n   return CharProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Int): IntProgression {\n   return IntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Int): LongProgression {\n   return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Int): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Int): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Long): LongProgression {\n   return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n

*/\npublic infix fun Long.downTo(to: Long): LongProgression {\n   return LongProgression.fromClosedRange(this, to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Long): LongProgression {\n   return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Long): LongProgression {\n   return LongProgression.fromClosedRange(this.toLong(), to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Int.downTo(to: Short): IntProgression {\n   return IntProgression.fromClosedRange(this, to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Long.downTo(to: Short): LongProgression {\n   return LongProgression.fromClosedRange(this, to.toLong(), -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Byte.downTo(to: Short): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\npublic infix fun Short.downTo(to: Short): IntProgression {\n   return IntProgression.fromClosedRange(this.toInt(), to.toInt(), -1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\npublic fun IntProgression.reversed(): IntProgression {\n   return IntProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\npublic fun LongProgression.reversed(): LongProgression {\n   return LongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\npublic fun CharProgression.reversed(): CharProgression {\n   return CharProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun IntProgression.step(step: Int): IntProgression {\n   checkStepIsPositive(step > 0, step)\n   return IntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun LongProgression.step(step: Long): LongProgression {\n   checkStepIsPositive(step > 0, step)\n   return LongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\npublic infix fun CharProgression.step(step: Int): CharProgression {\n   checkStepIsPositive(step > 0, step)\n   return CharProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\ninternal fun Int.toByteExactOrNull(): Byte? {\n   return if (this in Byte.MIN_VALUE.toInt()..Byte.MAX_VALUE.toInt()) this.toByte() else null\n}\n\ninternal fun Long.toByteExactOrNull(): Byte? {\n   return if (this in Byte.MIN_VALUE.toLong()..Byte.MAX_VALUE.toLong()) this.toByte() else null\n}\n\ninternal fun Short.toByteExactOrNull(): Byte? {\n   return if (this in Byte.MIN_VALUE.toShort()..Byte.MAX_VALUE.toShort()) this.toByte() else null\n}\n\ninternal fun Double.toByteExactOrNull(): Byte? {\n   return if (this in Byte.MIN_VALUE.toDouble()..Byte.MAX_VALUE.toDouble()) this.toByte() else null\n}\n\ninternal fun Float.toByteExactOrNull(): Byte? {\n   return if (this in Byte.MIN_VALUE.toFloat()..Byte.MAX_VALUE.toFloat()) this.toByte() else null\n}\n\ninternal fun Long.toIntExactOrNull(): Int? {\n   return if (this in Int.MIN_VALUE.toLong()..Int.MAX_VALUE.toLong())

this.toInt() else null\n}\n\ninternal fun Double.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toDouble()..Int.MAX_VALUE.toDouble()) this.toInt() else null\n}\n\ninternal fun Float.toIntExactOrNull(): Int? {\n return if (this in Int.MIN_VALUE.toFloat()..Int.MAX_VALUE.toFloat()) this.toInt() else null\n}\n\ninternal fun Double.toLongExactOrNull(): Long? {\n return if (this in Long.MIN_VALUE.toDouble()..Long.MAX_VALUE.toDouble()) this.toLong() else null\n}\n\ninternal fun Float.toLongExactOrNull(): Long? {\n return if (this in Long.MIN_VALUE.toFloat()..Long.MAX_VALUE.toFloat()) this.toLong() else null\n}\n\ninternal fun Int.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toInt()..Short.MAX_VALUE.toInt()) this.toShort() else null\n}\n\ninternal fun Long.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toLong()..Short.MAX_VALUE.toLong()) this.toShort() else null\n}\n\ninternal fun Double.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toDouble()..Short.MAX_VALUE.toDouble()) this.toShort() else null\n}\n\ninternal fun Float.toShortExactOrNull(): Short? {\n return if (this in Short.MIN_VALUE.toFloat()..Short.MAX_VALUE.toFloat()) this.toShort() else null\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Byte): IntRange {\n return this .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Byte): LongRange {\n return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Byte): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Byte): IntRange {\n return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Char.until(to: Char): CharRange {\n if (to <= '\\u0000') return CharRange.EMPTY\n return this .. (to - 1).toChar()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Int): IntRange {\n if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n return this .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Int): LongRange {\n return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Int): IntRange {\n if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n return this.toInt() .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Int): IntRange {\n if (to <= Int.MIN_VALUE) return IntRange.EMPTY\n return this.toInt() .. (to - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Long): LongRange {\n if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Long): LongRange {\n if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n return this .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Byte.until(to: Long): LongRange {\n if (to <=

Long.MIN_VALUE) return LongRange.EMPTY\n   return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n *
 If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Long): LongRange {\n   if (to <= Long.MIN_VALUE) return LongRange.EMPTY\n   return this.toLong() .. (to - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Int.until(to: Short): IntRange {\n   return this .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Long.until(to: Short): LongRange {\n   return this .. (to.toLong() - 1).toLong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then
 the returned range is empty.\n */\npublic infix fun Byte.until(to: Short): IntRange {\n   return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\npublic infix fun Short.until(to: Short): IntRange {\n   return this.toInt() .. (to.toInt() - 1).toInt()\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastComparable\n */\npublic fun <T : Comparable<T>> T.coerceAtLeast(minimumValue: T): T {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the
 [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Byte.coerceAtLeast(minimumValue: Byte): Byte {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Short.coerceAtLeast(minimumValue: Short): Short {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Int.coerceAtLeast(minimumValue: Int): Int {\n   return if (this < minimumValue) minimumValue
 else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Long.coerceAtLeast(minimumValue: Long): Long {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Float.coerceAtLeast(minimumValue: Float): Float {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample
 samples.comparisons.ComparableOps.coerceAtLeast\n */\npublic fun Double.coerceAtLeast(minimumValue: Double): Double {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostComparable\n */\npublic fun <T : Comparable<T>> T.coerceAtMost(maximumValue: T): T {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less

than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Byte.coerceAtMost(maximumValue: Byte): Byte {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Short.coerceAtMost(maximumValue: Short): Short {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Int.coerceAtMost(maximumValue: Int): Int {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Long.coerceAtMost(maximumValue: Long): Long {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Float.coerceAtMost(maximumValue: Float): Float {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMost\n */\npublic fun Double.coerceAtMost(maximumValue: Double): Double {\n return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInComparable\n */\npublic fun <T : Comparable<T>> T.coerceIn(minimumValue: T?, maximumValue: T?): T {\n if (minimumValue !== null && maximumValue !== null) {\n if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n if (this < minimumValue) return minimumValue\n if (this > maximumValue) return maximumValue\n }\n else {\n if (minimumValue !== null && this < minimumValue) return minimumValue\n if (maximumValue !== null && this > maximumValue) return maximumValue\n }\n return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Byte.coerceIn(minimumValue: Byte, maximumValue: Byte): Byte {\n if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n if (this < minimumValue) return minimumValue\n if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Short.coerceIn(minimumValue: Short, maximumValue: Short): Short {\n if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n if (this < minimumValue) return minimumValue\n if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than

[maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Int.coerceIn(minimumValue: Int, maximumValue: Int): Int {\n if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n if (this < minimumValue) return minimumValue\n if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Long.coerceIn(minimumValue: Long, maximumValue: Long): Long {\n if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n if (this < minimumValue) return minimumValue\n if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Float.coerceIn(minimumValue: Float, maximumValue: Float): Float {\n if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n if (this < minimumValue) return minimumValue\n if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Double.coerceIn(minimumValue: Double, maximumValue: Double): Double {\n if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n if (this < minimumValue) return minimumValue\n if (this > maximumValue) return maximumValue\n return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInFloatingPointRange\n */\n@SinceKotlin(\"1.1\")\npublic fun <T : Comparable<T>> T.coerceIn(range: ClosedFloatingPointRange<T>): T {\n if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n return when {\n // this < start equiv to this <= start && !(this >= start)\n range.lessThanOrEquals(this, range.start) && !range.lessThanOrEquals(range.start, this) -> range.start\n // this > end equiv to this >= end && !(this <= end)\n range.lessThanOrEquals(range.endInclusive, this) && !range.lessThanOrEquals(this, range.endInclusive) -> range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInComparable\n */\npublic fun <T : Comparable<T>> T.coerceIn(range: ClosedRange<T>): T {\n if (range is ClosedFloatingPointRange) {\n return this.coerceIn<T>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n return when {\n this < range.start -> range.start\n this > range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Int.coerceIn(range: ClosedRange<Int>): Int {\n if (range is ClosedFloatingPointRange) {\n return this.coerceIn<Int>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n return when {\n this < range.start -> range.start\n this > range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n/**\n *

Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceIn\n */\npublic fun Long.coerceIn(range: ClosedRange<Long>): Long {\n if (range is ClosedFloatingPointRange) {\n return this.coerceIn<Long>(range)\n }\n if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n return when {\n this < range.start -> range.start\n this > range.endInclusive -> range.endInclusive\n else -> this\n }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\n\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline class UByte @PublishedApi internal constructor(@PublishedApi internal val data: Byte) : Comparable<UByte> {\n\n companion object {\n /**\n * A constant holding the minimum value an instance of UByte can have.\n */\n public const val MIN_VALUE: UByte = UByte(0)\n\n /**\n * A constant holding the maximum value an instance of UByte can have.\n */\n public const val MAX_VALUE: UByte = UByte(-1)\n\n /**\n * The number of bytes used to represent an instance of UByte in a binary form.\n */\n public const val SIZE_BYTES: Int = 1\n\n /**\n * The number of bits used to represent an instance of UByte in a binary form.\n */\n public const val SIZE_BITS: Int = 8\n }\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n @Suppress(\"OVERRIDE_BY_INLINE\")\n public override inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): UInt

= this.toUInt().times(other.toUInt())\n   /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n   public inline operator fun times(other: UShort): UInt = this.toUInt().times(other.toUInt())\n   /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n   public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n   /** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\n\n   /** Divides this value by the other value. */\n   @kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\n   /** Divides this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n   /** Divides this value by the other value. */\n   @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)\n   /** Divides this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n   /** Calculates the remainder of dividing this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())\n   /** Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())\n   /** Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n   /** Calculates the remainder of dividing this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n   /** Increments this value. */\n @kotlin.internal.InlineOnly\n   public inline operator fun inc(): UByte = UByte(data.inc())\n   /** Decrements this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun dec(): UByte = UByte(data.dec())\n\n   /** Creates a range from this value to the specified [other] value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rangeTo(other: UByte): UIntRange = UIntRange(this.toUInt(), other.toUInt())\n\n   /** Performs a bitwise AND operation between the two values. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun and(other: UByte): UByte = UByte(this.data and other.data)\n   /** Performs a bitwise OR operation between the two values. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun or(other: UByte): UByte = UByte(this.data or other.data)\n   /** Performs a bitwise XOR operation between the two values. */\n @kotlin.internal.InlineOnly\n   public inline infix fun xor(other: UByte): UByte = UByte(this.data xor other.data)\n   /** Inverts the bits in this value. */\n   @kotlin.internal.InlineOnly\n   public inline fun inv(): UByte = UByte(data.inv())\n\n   /**\n   * Converts this [UByte] value to [Byte].\n   *\n   * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n   * the same numerical value as this `UByte`. Otherwise the result is negative.\n   *\n   * The resulting `Byte` value has the same binary representation as this `UByte` value.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toByte(): Byte = data\n   /**\n   * Converts this [UByte] value to [Short].\n   *\n   * The resulting `Short` value represents the same numerical value as this `UByte`.\n   *\n   * The least significant 8 bits of the resulting `Short` value are the same as the bits of this `UByte` value,\n   * whereas the most significant 8 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toShort(): Short = data.toShort() and 0xFF\n   /**\n   * Converts this [UByte] value to [Int].\n   *\n   * The resulting `Int` value represents the same numerical value as this `UByte`.\n   *\n   * The least significant 8 bits of the resulting `Int` value are the same as the bits of this `UByte` value,\n   * whereas the most significant 24 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toInt(): Int = data.toInt() and 0xFF\n   /**\n   * Converts this [UByte] value to [Long].\n   *\n   * The resulting `Long` value represents the same numerical value as this `UByte`.\n   *\n   * The least significant 8 bits of the resulting `Long` value are the same as the bits of this `UByte` value,\n   * whereas the most significant 56 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toLong(): Long = data.toLong() and 0xFF\n\n   /** Returns this value. */\n   @kotlin.internal.InlineOnly\n   public inline fun toUByte(): UByte = this\n   /**\n   * Converts this [UByte] value to [UShort].\n   *\n   * The resulting `UShort` value represents the same numerical

value as this `UByte`.\n *\n
* The least significant 8 bits of the resulting `UShort` value are the same as the bits of this `UByte` value,\n * whereas the most significant 8 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toUShort(): UShort = UShort(data.toShort() and 0xFF)\n /**\n * Converts this [UByte] value to [UInt].\n *\n * The resulting `UInt` value represents the same numerical value as this `UByte`.\n *\n * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `UByte` value,\n * whereas the most significant 24 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFF)\n /**\n * Converts this [UByte] value to [ULong].\n *\n * The resulting `ULong` value represents the same numerical value as this `UByte`.\n *\n * The least significant 8 bits of the resulting `ULong` value are the same as the
bits of this `UByte` value,\n * whereas the most significant 56 bits are filled with zeros.\n */\n @kotlin.internal.InlineOnly\n public inline fun toULong(): ULong = ULong(data.toLong() and 0xFF)\n\n /**\n * Converts this [UByte] value to [Float].\n *\n * The resulting `Float` value represents the same numerical value as this `UByte`.\n */\n @kotlin.internal.InlineOnly\n public inline fun toFloat(): Float = this.toInt().toFloat()\n /**\n * Converts this [UByte] value to [Double].\n *\n * The resulting `Double` value represents the same numerical value as this `UByte`.\n */\n @kotlin.internal.InlineOnly\n public inline fun toDouble(): Double = this.toInt().toDouble()\n\n public override fun toString(): String = toInt().toString()\n\n}\n\n/**\n * Converts this [Byte] value to [UByte].\n *\n * If this value is positive, the resulting `UByte` value represents the same numerical value as this `Byte`.\n *\n * The resulting
`UByte` value has the same binary representation as this `Byte` value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Byte.toUByte(): UByte = UByte(this)\n/**\n * Converts this [Short] value to [UByte].\n *\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `Short`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Short` value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Short.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Int] value to [UByte].\n *\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `Int`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Int` value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun Int.toUByte(): UByte = UByte(this.toByte())\n/**\n * Converts this [Long] value to [UByte].\n *\n * If this value is positive and less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n * the same numerical value as this `Long`.\n *\n * The resulting `UByte` value is represented by the least significant 8 bits of this `Long` value.\n
/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Long.toUByte(): UByte = UByte(this.toByte())\n","/\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\n\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic
inline class UInt @PublishedApi internal constructor(@PublishedApi internal val data: Int) : Comparable<UInt> {\n\n companion object {\n /**\n * A constant holding the minimum value an instance of UInt can have.\n */\n public const val MIN_VALUE: UInt = UInt(0)\n\n /**\n * A constant holding the maximum value an instance of UInt can have.\n */\n public const val MAX_VALUE: UInt = UInt(-1)\n\n /**\n * The number of bytes used to represent an instance of UInt in a binary form.\n */\n public const val SIZE_BYTES: Int = 4\n\n /**\n * The number of bits used to represent an instance of UInt in a binary form.\n */\n public const val SIZE_BITS: Int = 32\n }\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number

if it's less
than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toUInt())\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toUInt())\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n @Suppress(\"OVERRIDE_BY_INLINE\")\n public override inline operator fun compareTo(other: UInt): Int = uintCompare(this.data,
other.data)\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): UInt = this.plus(other.toUInt())\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UShort): UInt = this.plus(other.toUInt())\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): UInt = UInt(this.data.plus(other.data))\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): UInt = this.minus(other.toUInt())\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UShort): UInt = this.minus(other.toUInt())\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt = UInt(this.data.minus(other.data))\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): UInt = this.times(other.toUInt())\n /** Multiplies this
value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt = this.times(other.toUInt())\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): UInt = UInt(this.data.times(other.data))\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): UInt = this.div(other.toUInt())\n /** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UShort): UInt = this.div(other.toUInt())\n /** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt = uintDivide(this,
other)\n /** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n /** Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte): UInt = this.rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt = this.rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt = uintRemainder(this, other)\n /** Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /** Increments this value.

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*/\n    @kotlin.internal.InlineOnly\n    public inline operator fun inc(): UInt = UInt(data.inc())\n    /** Decrements this value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun dec(): UInt = UInt(data.dec())\n\n    /** Creates a range from this value to the specified [other] value. */\n    @kotlin.internal.InlineOnly\n    public inline operator fun rangeTo(other: UInt): UIntRange = UIntRange(this, other)\n\n    /** Shifts this value left by the [bitCount] number of bits. */\n    @kotlin.internal.InlineOnly\n    public inline infix fun shl(bitCount: Int): UInt = UInt(data shl bitCount)\n    /** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros. */\n    @kotlin.internal.InlineOnly\n    public inline infix fun shr(bitCount: Int): UInt = UInt(data ushr bitCount)\n    /** Performs a bitwise AND operation between the two values. */\n    @kotlin.internal.InlineOnly\n    public inline infix fun and(other: UInt): UInt = UInt(this.data
    and other.data)\n    /** Performs a bitwise OR operation between the two values. */\n    @kotlin.internal.InlineOnly\n    public inline infix fun or(other: UInt): UInt = UInt(this.data or other.data)\n    /** Performs a bitwise XOR operation between the two values. */\n    @kotlin.internal.InlineOnly\n    public inline infix fun xor(other: UInt): UInt = UInt(this.data xor other.data)\n    /** Inverts the bits in this value. */\n    @kotlin.internal.InlineOnly\n    public inline fun inv(): UInt = UInt(data.inv())\n\n    /**\n     * Converts this [UInt] value to [Byte].\n     *\n     * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n     * the same numerical value as this `UInt`.\n     *\n     * The resulting `Byte` value is represented by the least significant 8 bits of this `UInt` value.\n     * Note that the resulting `Byte` value may be negative.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toByte(): Byte
    = data.toByte()\n    /**\n     * Converts this [UInt] value to [Short].\n     *\n     * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n     * the same numerical value as this `UInt`.\n     *\n     * The resulting `Short` value is represented by the least significant 16 bits of this `UInt` value.\n     * Note that the resulting `Short` value may be negative.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toShort(): Short = data.toShort()\n    /**\n     * Converts this [UInt] value to [Int].\n     *\n     * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents\n     * the same numerical value as this `UInt`. Otherwise the result is negative.\n     *\n     * The resulting `Int` value has the same binary representation as this `UInt` value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toInt(): Int = data\n    /**\n     * Converts this [UInt] value to [Long].\n
     *\n     * The resulting `Long` value represents the same numerical value as this `UInt`.\n     *\n     * The least significant 32 bits of the resulting `Long` value are the same as the bits of this `UInt` value,\n     * whereas the most significant 32 bits are filled with zeros.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toLong(): Long = data.toLong() and 0xFFFF_FFFF\n\n    /**\n     * Converts this [UInt] value to [UByte].\n     *\n     * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n     * the same numerical value as this `UInt`.\n     *\n     * The resulting `UByte` value is represented by the least significant 8 bits of this `UInt` value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toUByte(): UByte = data.toUByte()\n    /**\n     * Converts this [UInt] value to [UShort].\n     *\n     * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n
     * the same numerical value as this `UInt`.\n     *\n     * The resulting `UShort` value is represented by the least significant 16 bits of this `UInt` value.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toUShort(): UShort = data.toUShort()\n    /** Returns this value. */\n    @kotlin.internal.InlineOnly\n    public inline fun toUInt(): UInt = this\n    /**\n     * Converts this [UInt] value to [ULong].\n     *\n     * The resulting `ULong` value represents the same numerical value as this `UInt`.\n     *\n     * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `UInt` value,\n     * whereas the most significant 32 bits are filled with zeros.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF_FFFF)\n\n    /**\n     * Converts this [UInt] value to [Float].\n     *\n     * The resulting value is the closest `Float` to this `UInt` value.\n     * In case when
    this `UInt` value is exactly between two `Float`s,\n     * the one with zero at least significant bit of mantissa is selected.\n     */\n    @kotlin.internal.InlineOnly\n    public inline fun toFloat(): Float = this.toDouble().toFloat()\n    /**\n     * Converts this [UInt] value to [Double].\n     *\n     * The resulting `Double` value represents the same
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numerical value as this `UInt`.\n */\n @kotlin.internal.InlineOnly\n public inline fun toDouble(): Double = uintToDouble(data)\n\n public override fun toString(): String = toLong().toString()\n\n}\n\n/**\n * Converts this [Byte] value to [UInt].\n *\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Byte`.\n *\n * The least significant 8 bits of the resulting `UInt` value are the same as the bits of this `Byte` value,\n * whereas the most significant 24 bits are filled with the sign bit of this value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Byte.toUInt(): UInt = UInt(this.toInt())\n/**\n * Converts this [Short] value to [UInt].\n *\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Short`.\n *\n * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `Short` value,\n * whereas the most significant 16 bits are filled with the sign bit of this value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Short.toUInt(): UInt = UInt(this.toInt())\n/**\n * Converts this [Int] value to [UInt].\n *\n * If this value is positive, the resulting `UInt` value represents the same numerical value as this `Int`.\n *\n * The resulting `UInt` value has the same binary representation as this `Int` value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Int.toUInt(): UInt = UInt(this)\n/**\n * Converts this [Long] value to [UInt].\n *\n * If this value is positive and less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents\n * the same numerical value as this `Long`.\n *\n * The resulting `UInt` value is represented by the least significant 32 bits of this `Long` value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Long.toUInt(): UInt = UInt(this.toInt())\n\n/**\n * Converts this [Float] value to [UInt].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Float` value is negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Float.toUInt(): UInt = doubleToUInt(this.toDouble())\n/**\n * Converts this [Double] value to [UInt].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is negative or `NaN`, [UInt.MAX_VALUE] if it's bigger than `UInt.MAX_VALUE`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Double.toUInt(): UInt = doubleToUInt(this)\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport kotlin.experimental.*\n\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline class UShort @PublishedApi internal constructor(@PublishedApi internal val data: Short) : Comparable<UShort> {\n\n companion object {\n /**\n * A constant holding the minimum value an instance of UShort can have.\n */\n public const val MIN_VALUE: UShort = UShort(0)\n\n /**\n * A constant holding the maximum value an instance of UShort can have.\n */\n public const val MAX_VALUE: UShort = UShort(-1)\n\n /**\n * The number of bytes used to represent an instance of UShort in a binary form.\n */\n public const val SIZE_BYTES: Int = 2\n\n /**\n * The number of bits used to represent an instance of UShort in a binary form.\n */\n public const val SIZE_BITS: Int = 16\n }\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UByte): Int = this.toInt().compareTo(other.toInt())\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n @Suppress(\"OVERRIDE_BY_INLINE\")\n public override inline operator fun compareTo(other: UShort): Int = this.toInt().compareTo(other.toInt())\n\n /**\n * Compares this value with the specified value for order.\n *

Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: UInt): Int = this.toUInt().compareTo(other)\n\n /**\n * Compares this value with the specified value for order.\n * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n * or a positive number if it's greater than other.\n */\n @kotlin.internal.InlineOnly\n public inline operator fun compareTo(other: ULong): Int = this.toULong().compareTo(other)\n\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UByte): UInt = this.toUInt().plus(other.toUInt())\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UShort): UInt = this.toUInt().plus(other.toUInt())\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: UInt): UInt = this.toUInt().plus(other)\n /** Adds the other value to this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun plus(other: ULong): ULong = this.toULong().plus(other)\n\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UByte): UInt = this.toUInt().minus(other.toUInt())\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UShort): UInt = this.toUInt().minus(other.toUInt())\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: UInt): UInt = this.toUInt().minus(other)\n /** Subtracts the other value from this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun minus(other: ULong): ULong = this.toULong().minus(other)\n\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UByte): UInt = this.toUInt().times(other.toUInt())\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UShort): UInt = this.toUInt().times(other.toUInt())\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: UInt): UInt = this.toUInt().times(other)\n /** Multiplies this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun times(other: ULong): ULong = this.toULong().times(other)\n\n /** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UByte): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UShort): UInt = this.toUInt().div(other.toUInt())\n /** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: UInt): UInt = this.toUInt().div(other)\n /** Divides this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun div(other: ULong): ULong = this.toULong().div(other)\n\n /** Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UByte): UInt = this.toUInt().rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UShort): UInt = this.toUInt().rem(other.toUInt())\n /** Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: UInt): UInt = this.toUInt().rem(other)\n /** Calculates the remainder of dividing this value by the other value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rem(other: ULong): ULong = this.toULong().rem(other)\n\n /** Increments this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun inc(): UShort = UShort(data.inc())\n /** Decrements this value. */\n @kotlin.internal.InlineOnly\n public inline operator fun dec(): UShort = UShort(data.dec())\n\n /** Creates a range from this value to the specified [other] value. */\n @kotlin.internal.InlineOnly\n public inline operator fun rangeTo(other: UShort): UIntRange = UIntRange(this.toUInt(), other.toUInt())\n\n /** Performs a bitwise AND operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun and(other: UShort): UShort = UShort(this.data and other.data)\n /** Performs a bitwise OR operation between the two values. */\n @kotlin.internal.InlineOnly\n public inline infix fun or(other: UShort): UShort = UShort(this.data or other.data)\n /** Performs a bitwise XOR

operation between the two values. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun xor(other: UShort): UShort = UShort(this.data xor other.data)\n   /** Inverts the bits in this value. */\n   @kotlin.internal.InlineOnly\n   public inline fun inv(): UShort = UShort(data.inv())\n\n   /**\n   * Converts this [UShort] value to [Byte].\n   *\n   * If this value is less than or equals to [Byte.MAX_VALUE],
 the resulting `Byte` value represents\n   * the same numerical value as this `UShort`.\n   *\n   * The resulting `Byte` value is represented by the least significant 8 bits of this `UShort` value.\n   * Note that the resulting `Byte` value may be negative.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toByte(): Byte = data.toByte()\n   /**\n   * Converts this [UShort] value to [Short].\n   *\n   * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n   * the same numerical value as this `UShort`. Otherwise the result is negative.\n   *\n   * The resulting `Short` value has the same binary representation as this `UShort` value.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toShort(): Short = data\n   /**\n   * Converts this [UShort] value to [Int].\n   *\n   * The resulting `Int` value represents the same numerical value as this `UShort`.\n   *\n   * The least significant
 16 bits of the resulting `Int` value are the same as the bits of this `UShort` value,\n   * whereas the most significant 16 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toInt(): Int = data.toInt() and 0xFFFF\n   /**\n   * Converts this [UShort] value to [Long].\n   *\n   * The resulting `Long` value represents the same numerical value as this `UShort`.\n   *\n   * The least significant 16 bits of the resulting `Long` value are the same as the bits of this `UShort` value,\n   * whereas the most significant 48 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toLong(): Long = data.toLong() and 0xFFFF\n\n   /**\n   * Converts this [UShort] value to [UByte].\n   *\n   * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n   * the same numerical value as this `UShort`.\n   *\n   * The resulting `UByte` value is represented
 by the least significant 8 bits of this `UShort` value.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toUByte(): UByte = data.toUByte()\n   /** Returns this value. */\n   @kotlin.internal.InlineOnly\n   public inline fun toUShort(): UShort = this\n   /**\n   * Converts this [UShort] value to [UInt].\n   *\n   * The resulting `UInt` value represents the same numerical value as this `UShort`.\n   *\n   * The least significant 16 bits of the resulting `UInt` value are the same as the bits of this `UShort` value,\n   * whereas the most significant 16 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toUInt(): UInt = UInt(data.toInt() and 0xFFFF)\n   /**\n   * Converts this [UShort] value to [ULong].\n   *\n   * The resulting `ULong` value represents the same numerical value as this `UShort`.\n   *\n   * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `UShort`
 value,\n   * whereas the most significant 48 bits are filled with zeros.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toULong(): ULong = ULong(data.toLong() and 0xFFFF)\n\n   /**\n   * Converts this [UShort] value to [Float].\n   *\n   * The resulting `Float` value represents the same numerical value as this `UShort`.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toFloat(): Float = this.toInt().toFloat()\n   /**\n   * Converts this [UShort] value to [Double].\n   *\n   * The resulting `Double` value represents the same numerical value as this `UShort`.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toDouble(): Double = this.toInt().toDouble()\n\n   public override fun toString(): String = toInt().toString()\n\n}\n\n/**\n * Converts this [Byte] value to [UShort].\n *\n * If this value is positive, the resulting `UShort` value represents the same numerical value as this `Byte`.\n *\n * The least significant 8 bits
 of the resulting `UShort` value are the same as the bits of this `Byte` value,\n * whereas the most significant 8 bits are filled with the sign bit of this value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Byte.toUShort(): UShort = UShort(this.toShort())\n/**\n * Converts this [Short] value to [UShort].\n *\n * If this value is positive, the resulting `UShort` value represents the same numerical value as this `Short`.\n *\n * The resulting `UShort` value has the same binary representation as this `Short` value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Short.toUShort(): UShort = UShort(this)\n/**\n * Converts this [Int] value to [UShort].\n *\n * If this value is

positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n * the same numerical value as this `Int`.\n *\n * The resulting `UShort` value is represented by the least significant 16 bits of this `Int` value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Int.toUShort(): UShort = UShort(this.toShort())\n/**\n * Converts this [Long] value to [UShort].\n *\n * If this value is positive and less than or equals to [UShort.MAX_VALUE], the resulting `UShort` value represents\n * the same numerical value as this `Long`.\n *\n * The resulting `UShort` value is represented by the least significant 16 bits of this `Long` value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Long.toUShort(): UShort = UShort(this.toShort())\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n/**\n * A range of values of type `Char`.\n */\npublic class CharRange(start: Char, endInclusive: Char) : CharProgression(start, endInclusive, 1), ClosedRange<Char> {\n   override val start: Char get() = first\n   override val endInclusive: Char get() = last\n\n   override fun contains(value: Char): Boolean = first <= value && value <= last\n\n   override fun isEmpty(): Boolean = first > last\n\n   override fun equals(other: Any?): Boolean =\n   other is CharRange && (isEmpty() && other.isEmpty() ||\n   first == other.first && last == other.last)\n\n   override fun hashCode(): Int =\n   if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())\n\n   override fun toString(): String = \"$first..$last\"\n\n   companion object {\n   /** An empty range of values of type Char. */\n   public val EMPTY: CharRange = CharRange(1.toChar(), 0.toChar())\n   }\n}\n\n/**\n * A range of values of type `Int`.\n */\npublic class IntRange(start: Int, endInclusive: Int) : IntProgression(start, endInclusive, 1), ClosedRange<Int> {\n   override val start: Int get() = first\n   override val endInclusive: Int get() = last\n\n   override fun contains(value: Int): Boolean = first <= value && value <= last\n\n   override fun isEmpty(): Boolean = first > last\n\n   override fun equals(other: Any?): Boolean =\n   other is IntRange && (isEmpty() && other.isEmpty() ||\n   first == other.first && last == other.last)\n\n   override fun hashCode(): Int =\n   if (isEmpty()) -1 else (31 * first + last)\n\n   override fun toString(): String = \"$first..$last\"\n\n   companion object {\n   /** An empty range of values of type Int. */\n   public val EMPTY: IntRange = IntRange(1, 0)\n   }\n}\n\n/**\n * A range of values of type `Long`.\n */\npublic class LongRange(start: Long, endInclusive: Long) : LongProgression(start, endInclusive, 1), ClosedRange<Long> {\n   override val start: Long get() = first\n   override val endInclusive: Long get() = last\n\n   override fun contains(value: Long): Boolean = first <= value && value <= last\n\n   override fun isEmpty(): Boolean = first > last\n\n   override fun equals(other: Any?): Boolean =\n   other is LongRange && (isEmpty() && other.isEmpty() ||\n   first == other.first && last == other.last)\n\n   override fun hashCode(): Int =\n   if (isEmpty()) -1 else (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))).toInt()\n\n   override fun toString(): String = \"$first..$last\"\n\n   companion object {\n   /** An empty range of values of type Long. */\n   public val EMPTY: LongRange = LongRange(1, 0)\n   }\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\nimport kotlin.contracts.*\n\ninternal object EmptyIterator : ListIterator<Nothing> {\n   override fun hasNext(): Boolean = false\n   override fun hasPrevious(): Boolean = false\n   override fun nextIndex(): Int = 0\n   override fun previousIndex(): Int = -1\n   override fun next(): Nothing = throw NoSuchElementException()\n   override fun previous(): Nothing = throw NoSuchElementException()\n}\n\ninternal object EmptyList : List<Nothing>, Serializable, RandomAccess {\n   private const val serialVersionUID: Long = -7390468764508069838L\n\n   override fun equals(other: Any?): Boolean = other is List<*> && other.isEmpty()\n   override fun hashCode(): Int = 1\n   override fun toString(): String = \"[]\"\n\n   override val size: Int get() = 0\n   override fun isEmpty(): Boolean = true\n   override fun

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contains(element: Nothing): Boolean = false\n    override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()\n\n    override fun get(index: Int): Nothing = throw IndexOutOfBoundsException(\"Empty list doesn't contain element at index $index.\")\n    override fun indexOf(element: Nothing): Int = -1\n    override fun lastIndexOf(element: Nothing): Int = -1\n\n    override fun iterator(): Iterator<Nothing> = EmptyIterator\n    override fun listIterator(): ListIterator<Nothing> = EmptyIterator\n    override fun listIterator(index: Int): ListIterator<Nothing> {\n        if (index != 0) throw IndexOutOfBoundsException(\"Index: $index\")\n        return EmptyIterator\n    }\n\n    override fun subList(fromIndex: Int, toIndex: Int): List<Nothing> {\n        if (fromIndex == 0 && toIndex == 0) return this\n        throw IndexOutOfBoundsException(\"fromIndex: $fromIndex, toIndex: $toIndex\")\n    }\n\n    private fun readResolve(): Any = EmptyList\n}\n\ninternal fun <T> Array<out T>.asCollection(): Collection<T> = ArrayAsCollection(this, isVarargs = false)\n\nprivate class ArrayAsCollection<T>(val values: Array<out T>, val isVarargs: Boolean) : Collection<T> {\n    override val size: Int
    get() = values.size\n    override fun isEmpty(): Boolean = values.isEmpty()\n    override fun contains(element: T): Boolean = values.contains(element)\n    override fun containsAll(elements: Collection<T>): Boolean = elements.all { contains(it) }\n    override fun iterator(): Iterator<T> = values.iterator()\n    // override hidden toArray implementation to prevent copying of values array\n    public fun toArray(): Array<out Any?> = values.copyToArrayOfAny(isVarargs)\n}\n\n/**\n * Returns an empty read-only list.  The returned list is serializable (JVM).\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\n */\npublic fun <T> emptyList(): List<T> = EmptyList\n\n/**\n * Returns a new read-only list of given elements.  The returned list is serializable (JVM).\n * @sample samples.collections.Collections.Lists.readOnlyList\n */\npublic fun <T> listOf(vararg elements: T): List<T> = if (elements.size > 0) elements.asList() else emptyList()\n\n/**\n * Returns an empty read-only
    list.  The returned list is serializable (JVM).\n * @sample samples.collections.Collections.Lists.emptyReadOnlyList\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> listOf(): List<T> = emptyList()\n\n/**\n * Returns an empty new [MutableList].\n * @sample samples.collections.Collections.Lists.emptyMutableList\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> mutableListOf(): MutableList<T> = ArrayList()\n\n/**\n * Returns an empty new [ArrayList].\n * @sample samples.collections.Collections.Lists.emptyArrayList\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> arrayListOf(): ArrayList<T> = ArrayList()\n\n/**\n * Returns a new [MutableList] with the given elements.\n * @sample samples.collections.Collections.Lists.mutableList\n */\npublic fun <T> mutableListOf(vararg elements: T): MutableList<T> =\n    if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))\n\n/**\n * Returns
    a new [ArrayList] with the given elements.\n * @sample samples.collections.Collections.Lists.arrayList\n */\npublic fun <T> arrayListOf(vararg elements: T): ArrayList<T> =\n    if (elements.size == 0) ArrayList() else ArrayList(ArrayAsCollection(elements, isVarargs = true))\n\n/**\n * Returns a new read-only list either of single given element, if it is not null, or empty list if the element is null. The returned list is serializable (JVM).\n * @sample samples.collections.Collections.Lists.listOfNotNull\n */\npublic fun <T : Any> listOfNotNull(element: T?): List<T> = if (element != null) listOf(element) else emptyList()\n\n/**\n * Returns a new read-only list only of those given elements, that are not null.  The returned list is serializable (JVM).\n * @sample samples.collections.Collections.Lists.listOfNotNull\n */\npublic fun <T : Any> listOfNotNull(vararg elements: T?): List<T> = elements.filterNotNull()\n\n/**\n * Creates a new read-only list with the specified [size], where each element
    is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each list element sequentially starting from the first one.\n * It should return the value for a list element given its index.\n *\n * @sample samples.collections.Collections.Lists.readOnlyListFromInitializer\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> List(size: Int, init: (index: Int) -> T):
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List<T> = MutableList(size, init)\n\n/**\n * Creates a new mutable list with the specified [size], where each element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each list element sequentially starting from the first one.\n * It should return the value for a list element given its index.\n *\n * @sample samples.collections.Collections.Lists.mutableListFromInitializer\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> MutableList(size: Int, init: (index: Int) -> T): MutableList<T>
{\n val list = ArrayList<T>(size)\n repeat(size) { index -> list.add(init(index)) }\n return list\n}\n\n/**\n * Returns an [IntRange] of the valid indices for this collection.\n * @sample samples.collections.Collections.Collections.indicesOfCollection\n */\npublic val Collection<*>.indices: IntRange\n get() = 0..size - 1\n\n/**\n * Returns the index of the last item in the list or -1 if the list is empty.\n *\n * @sample samples.collections.Collections.Lists.lastIndexOfList\n */\npublic val <T> List<T>.lastIndex: Int\n get() = this.size - 1\n\n/**\n * Returns `true` if the collection is not empty.\n * @sample samples.collections.Collections.Collections.collectionIsNotEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.isNotEmpty(): Boolean = !isEmpty()\n\n/**\n * Returns `true` if this nullable collection is either null or empty.\n * @sample samples.collections.Collections.Collections.collectionIsNullOrEmpty\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic
inline fun <T> Collection<T>?.isNullOrEmpty(): Boolean {\n contract {\n returns(false) implies (this@isNullOrEmpty != null)\n }\n\n return this == null || this.isEmpty()\n}\n\n/**\n * Returns this Collection if it's not `null` and the empty list otherwise.\n * @sample samples.collections.Collections.Collections.collectionOrEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>?.orEmpty(): Collection<T> = this ?: emptyList()\n\n/**\n * Returns this List if it's not `null` and the empty list otherwise.\n * @sample samples.collections.Collections.Lists.listOrEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>?.orEmpty(): List<T> = this ?: emptyList()\n\n/**\n * Returns this collection if it's not empty\n * or the result of calling [defaultValue] function if the collection is empty.\n *\n * @sample samples.collections.Collections.Collections.collectionIfEmpty\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic
inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Collection<*>, C : R =\n if (isEmpty()) defaultValue() else this\n\n\n/**\n * Checks if all elements in the specified collection are contained in this collection.\n *\n * Allows to overcome type-safety restriction of `containsAll` that requires to pass a collection of type `Collection<E>`.\n * @sample samples.collections.Collections.Collections.collectionContainsAll\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> Collection<T>.containsAll(elements: Collection<T>): Boolean = this.containsAll(elements)\n\ninternal fun <T> List<T>.optimizeReadOnlyList() = when (size) {\n 0 -> emptyList()\n 1 -> listOf(this[0])\n else -> this\n}\n\n/**\n * Searches this list or its range for the provided [element] using the binary search algorithm.\n * The list
is expected to be sorted into ascending order according to the Comparable natural ordering of its elements,\n * otherwise the result is undefined.\n *\n * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.\n *\n * `null` value is considered to be less than any non-null value.\n *\n * @return the index of the element, if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted.\n * @sample samples.collections.Collections.Lists.binarySearchOnComparable\n * @sample samples.collections.Collections.Lists.binarySearchWithBoundaries\n */\npublic fun <T : Comparable<T>> List<T?>.binarySearch(element: T?, fromIndex: Int = 0, toIndex: Int = size): Int {\n rangeCheck(size, fromIndex, toIndex)\n\n
 var low = fromIndex\n var high = toIndex - 1\n\n while (low <= high) {\n val mid = (low + high).ushr(1) // safe from overflows\n val midVal = get(mid)\n val cmp = compareValues(midVal, element)\n\n if

(cmp < 0)\n low = mid + 1\n else if (cmp > 0)\n high = mid - 1\n else\n return mid // key found\n }\n return -(low + 1) // key not found\n}\n\n/**\n * Searches this list or its range for the provided [element] using the binary search algorithm.\n * The list is expected to be sorted into ascending order according to the specified [comparator],\n * otherwise the result is undefined.\n *\n * If the list contains multiple elements equal to the specified [element], there is no guarantee which one will be found.\n *\n * `null` value is considered to be less than any non-null value.\n *\n * @return the index of the element, if it is contained in the list within the specified range;\n * otherwise, the inverted
insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted according to the specified [comparator].\n * @sample samples.collections.Collections.Lists.binarySearchWithComparator\n */\npublic fun <T> List<T>.binarySearch(element: T, comparator: Comparator<in T>, fromIndex: Int = 0, toIndex: Int = size): Int {\n rangeCheck(size, fromIndex, toIndex)\n\n var low = fromIndex\n var high = toIndex - 1\n\n while (low <= high) {\n val mid = (low + high).ushr(1) // safe from overflows\n val midVal = get(mid)\n val cmp = comparator.compare(midVal, element)\n\n if (cmp < 0)\n low = mid + 1\n else if (cmp > 0)\n high = mid - 1\n else\n return mid // key found\n }\n return -(low + 1) // key not found\n}\n\n/**\n * Searches this list or its range for an
element having the key returned by the specified [selector] function\n * equal to the provided [key] value using the binary search algorithm.\n * The list is expected to be sorted into ascending order according to the Comparable natural ordering of keys of its elements.\n * otherwise the result is undefined.\n *\n * If the list contains multiple elements with the specified [key], there is no guarantee which one will be found.\n *\n * `null` value is considered to be less than any non-null value.\n *\n * @return the index of the element with the specified [key], if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted.\n * @sample samples.collections.Collections.Lists.binarySearchByKey\n */\npublic inline fun <T, K : Comparable<K>> List<T>.binarySearchBy(\n key: K?,\n fromIndex: Int = 0,\n toIndex: Int = size,\n crossinline selector: (T) -> K?\n): Int =\n binarySearch(fromIndex, toIndex) { compareValues(selector(it), key) }\n\n// do not introduce this overload --- too rare\n//public fun <T, K> List<T>.binarySearchBy(key: K, comparator: Comparator<K>, fromIndex: Int = 0, toIndex: Int = size(), selector: (T) -> K): Int =\n// binarySearch(fromIndex, toIndex) { comparator.compare(selector(it), key) }\n\n\n/**\n * Searches this list or its range for an element for which the given [comparison] function returns zero using the binary search algorithm.\n *\n * The list is expected to be sorted so that the signs of the [comparison] function's return values ascend on the list elements,\n * i.e. negative values come before zero and zeroes come before positive values.\n * Otherwise, the result is undefined.\n *\n * If the list contains multiple elements for which [comparison] returns zero, there is no guarantee which one will
be found.\n *\n * @param comparison function that returns zero when called on the list element being searched.\n * On the elements coming before the target element, the function must return negative values;\n * on the elements coming after the target element, the function must return positive values.\n *\n * @return the index of the found element, if it is contained in the list within the specified range;\n * otherwise, the inverted insertion point `(-insertion point - 1)`.\n * The insertion point is defined as the index at which the element should be inserted,\n * so that the list (or the specified subrange of list) still remains sorted.\n * @sample samples.collections.Collections.Lists.binarySearchWithComparisonFunction\n */\npublic fun <T> List<T>.binarySearch(fromIndex: Int = 0, toIndex: Int = size, comparison: (T) -> Int): Int {\n rangeCheck(size, fromIndex, toIndex)\n\n var low = fromIndex\n var high = toIndex - 1\n\n while (low <= high) {\n val mid = (low +
high).ushr(1) // safe from overflows\n val midVal = get(mid)\n val cmp = comparison(midVal)\n\n if (cmp < 0)\n low = mid + 1\n else if (cmp > 0)\n high = mid - 1\n else\n return mid // key found\n }\n return -(low + 1) // key not found\n}\n\n/**\n * Checks that `from` and `to` are in\n * the range of [0..size] and throws an appropriate exception, if they aren't.\n */\nprivate fun rangeCheck(size: Int, fromIndex:

Int, toIndex: Int) {\n   when {\n   fromIndex > toIndex -> throw IllegalArgumentException(\"fromIndex ($fromIndex) is greater than toIndex ($toIndex).\")\n   fromIndex < 0 -> throw IndexOutOfBoundsException(\"fromIndex ($fromIndex) is less than zero.\")\n   toIndex > size -> throw IndexOutOfBoundsException(\"toIndex ($toIndex) is greater than size ($size).\")\n   }\n}\n\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal expect fun checkIndexOverflow(index: Int): Int\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal
 expect fun checkCountOverflow(count: Int): Int\n\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun throwIndexOverflow() { throw ArithmeticException(\"Index overflow has happened.\") }\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun throwCountOverflow() { throw ArithmeticException(\"Count overflow has happened.\") }\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"MapsKt\")\n\npackage kotlin.collections\n\nimport kotlin.contracts.*\n\nprivate object EmptyMap : Map<Any?, Nothing>, Serializable {\n   private const val serialVersionUID: Long = 8246714829545688274\n\n   override fun equals(other: Any?): Boolean = other is Map<*, *> && other.isEmpty()\n   override fun hashCode(): Int = 0\n   override fun toString(): String
 = \"{}\"\n\n   override val size: Int get() = 0\n   override fun isEmpty(): Boolean = true\n\n   override fun containsKey(key: Any?): Boolean = false\n   override fun containsValue(value: Nothing): Boolean = false\n   override fun get(key: Any?): Nothing? = null\n   override val entries: Set<Map.Entry<Any?, Nothing>> get() = EmptySet\n   override val keys: Set<Any?> get() = EmptySet\n   override val values: Collection<Nothing> get() = EmptyList\n\n   private fun readResolve(): Any = EmptyMap\n}\n\n/**\n * Returns an empty read-only map of specified type.\n *\n * The returned map is serializable (JVM).\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n */\npublic fun <K, V> emptyMap(): Map<K, V> = @Suppress(\"UNCHECKED_CAST\") (EmptyMap as Map<K, V>)\n\n/**\n * Returns a new read-only map with the specified contents, given as a list of pairs\n * where the first value is the key and the second is the value.\n *\n * If multiple pairs have the same key, the
 resulting map will contain the value from the last of those pairs.\n *\n * Entries of the map are iterated in the order they were specified.\n *\n * The returned map is serializable (JVM).\n *\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\n */\npublic fun <K, V> mapOf(vararg pairs: Pair<K, V>): Map<K, V> =\n   if (pairs.size > 0) pairs.toMap(LinkedHashMap(mapCapacity(pairs.size))) else emptyMap()\n\n/**\n * Returns an empty read-only map.\n *\n * The returned map is serializable (JVM).\n * @sample samples.collections.Maps.Instantiation.emptyReadOnlyMap\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> mapOf(): Map<K, V> = emptyMap()\n\n/**\n * Returns an empty new [MutableMap].\n *\n * The returned map preserves the entry iteration order.\n * @sample samples.collections.Maps.Instantiation.emptyMutableMap\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> mutableMapOf(): MutableMap<K, V> = LinkedHashMap()\n\n/**\n * Returns a
 new [MutableMap] with the specified contents, given as a list of pairs\n * where the first component is the key and the second is the value.\n *\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\n *\n * Entries of the map are iterated in the order they were specified.\n *\n * @sample samples.collections.Maps.Instantiation.mutableMapFromPairs\n * @sample samples.collections.Maps.Instantiation.emptyMutableMap\n */\npublic fun <K, V> mutableMapOf(vararg pairs: Pair<K, V>): MutableMap<K, V> =\n   LinkedHashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\n\n/**\n * Returns an empty new [HashMap].\n *\n * @sample samples.collections.Maps.Instantiation.emptyHashMap\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> hashMapOf(): HashMap<K, V> = HashMap<K, V>()\n\n/**\n * Returns a new [HashMap] with the specified contents, given as a list of pairs\n *

where the first component is the key
 and the second is the value.\n *\n * @sample samples.collections.Maps.Instantiation.hashMapFromPairs\n */\npublic fun <K, V> hashMapOf(vararg pairs: Pair<K, V>): HashMap<K, V> = HashMap<K, V>(mapCapacity(pairs.size)).apply { putAll(pairs) }\n\n/**\n * Returns an empty new [LinkedHashMap].\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> linkedMapOf(): LinkedHashMap<K, V> = LinkedHashMap<K, V>()\n\n/**\n * Returns a new [LinkedHashMap] with the specified contents, given as a list of pairs\n * where the first component is the key and the second is the value.\n *\n * If multiple pairs have the same key, the resulting map will contain the value from the last of those pairs.\n *\n * Entries of the map are iterated in the order they were specified.\n *\n * @sample samples.collections.Maps.Instantiation.linkedMapFromPairs\n */\npublic fun <K, V> linkedMapOf(vararg pairs: Pair<K, V>): LinkedHashMap<K, V> = pairs.toMap(LinkedHashMap(mapCapacity(pairs.size)))\n\n/**\n
 * Calculate the initial capacity of a map, based on Guava's com.google.common.collect.Maps approach. This is equivalent\n * to the Collection constructor for HashSet, (c.size()/.75f) + 1, but provides further optimisations for very small or\n * very large sizes, allows support non-collection classes, and provides consistency for all map based class construction.\n */\n@PublishedApi\ninternal fun mapCapacity(expectedSize: Int): Int {\n   if (expectedSize < 3) {\n   return expectedSize + 1\n   }\n   if (expectedSize < INT_MAX_POWER_OF_TWO) {\n   return expectedSize + expectedSize / 3\n   }\n   return Int.MAX_VALUE // any large value\n}\n\nprivate const val INT_MAX_POWER_OF_TWO: Int = Int.MAX_VALUE / 2 + 1\n\n/** Returns `true` if this map is not empty. */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.isNotEmpty(): Boolean = !isEmpty()\n\n/**\n * Returns `true` if this nullable map is either null or empty.\n * @sample samples.collections.Maps.Usage.mapIsNullOrEmpty\n
 */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>?.isNullOrEmpty(): Boolean {\n   contract {\n   returns(false) implies (this@isNullOrEmpty != null)\n   }\n\n
  return this == null || isEmpty()\n}\n\n/**\n * Returns the [Map] if its not `null`, or the empty [Map] otherwise.\n *\n * @sample samples.collections.Maps.Usage.mapOrEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<K, V>?.orEmpty(): Map<K, V> = this ?: emptyMap()\n\n/**\n * Returns this map if it's not empty\n * or the result of calling [defaultValue] function if the map is empty.\n *\n * @sample samples.collections.Maps.Usage.mapIfEmpty\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <M, R> M.ifEmpty(defaultValue: () -> R): R where M : Map<*, *>, M : R =\n   if (isEmpty()) defaultValue() else this\n\n/**\n * Checks if the map contains the given key.\n *\n * This method allows to use the `x in map` syntax
 for checking whether an object is contained in the map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.contains(key: K): Boolean = containsKey(key)\n\n/**\n * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <@kotlin.internal.OnlyInputTypes K, V> Map<out K, V>.get(key: K): V? =\n   @Suppress(\"UNCHECKED_CAST\") (this as Map<K, V>).get(key)\n\n/**\n * Allows to use the index operator for storing values in a mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.set(key: K, value: V): Unit {\n   put(key, value)\n}\n\n/**\n * Returns `true` if the map contains the specified [key].\n *\n * Allows to overcome type-safety restriction of `containsKey` that requires to pass a key of type `K`.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes
 K> Map<out K, *>.containsKey(key: K): Boolean =\n   @Suppress(\"UNCHECKED_CAST\") (this as Map<K, *>).containsKey(key)\n\n/**\n * Returns `true` if the map maps one or more keys to the specified [value].\n *\n * Allows to overcome type-safety restriction of `containsValue` that requires to pass a value of type `V`.\n *\n * @sample samples.collections.Maps.Usage.containsValue\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\n@kotlin.internal.InlineOnly\npublic inline fun <K, @kotlin.internal.OnlyInputTypes V> Map<K, V>.containsValue(value: V): Boolean = this.containsValue(value)\n\n\n/**\n * Removes the specified key and its

corresponding value from this map.\n *\n * @return the previous value associated with the key, or `null` if the key was not present in the map.\n\n * Allows to overcome type-safety restriction of `remove` that requires to pass a key of type `K`.\n */\n@kotlin.internal.InlineOnly\npublic inline
fun <@kotlin.internal.OnlyInputTypes K, V> MutableMap<out K, V>.remove(key: K): V? =\n @Suppress(\"UNCHECKED_CAST\") (this as MutableMap<K, V>).remove(key)\n\n/**\n * Returns the key component of the map entry.\n *\n * This method allows to use destructuring declarations when working with maps, for example:\n * ```\n * for ((key, value) in map) {\n * // do something with the key and the value\n * }\n * ```\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> Map.Entry<K, V>.component1(): K = key\n\n/**\n * Returns the value component of the map entry.\n *\n * This method allows to use destructuring declarations when working with maps, for example:\n * ```\n * for ((key, value) in map) {\n * // do something with the key and the value\n * }\n * ```\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> Map.Entry<K, V>.component2(): V = value\n\n/**\n * Converts entry to [Pair] with key being first component and value being second.\n */\n@kotlin.internal.InlineOnly\npublic
inline fun <K, V> Map.Entry<K, V>.toPair(): Pair<K, V> = Pair(key, value)\n\n/**\n * Returns the value for the given key, or the result of the [defaultValue] function if there was no entry for the given key.\n *\n * @sample samples.collections.Maps.Usage.getOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<K, V>.getOrElse(key: K, defaultValue: () -> V): V = get(key) ?: defaultValue()\n\n\ninternal inline fun <K, V> Map<K, V>.getOrElseNullable(key: K, defaultValue: () -> V): V {\n val value = get(key)\n if (value == null && !containsKey(key)) {\n return defaultValue()\n } else {\n @Suppress(\"UNCHECKED_CAST\")\n return value as V\n }\n}\n\n/**\n * Returns the value for the given [key] or throws an exception if there is no such key in the map.\n *\n * If the map was created by [withDefault], resorts to its `defaultValue` provider function\n * instead of throwing an exception.\n *\n * @throws NoSuchElementException
when the map doesn't contain a value for the specified key and\n * no implicit default value was provided for that map.\n */\n@SinceKotlin(\"1.1\")\npublic fun <K, V> Map<K, V>.getValue(key: K): V = getOrImplicitDefault(key)\n\n/**\n * Returns the value for the given key. If the key is not found in the map, calls the [defaultValue] function,\n * puts its result into the map under the given key and returns it.\n *\n * Note that the operation is not guaranteed to be atomic if the map is being modified concurrently.\n *\n * @sample samples.collections.Maps.Usage.getOrPut\n */\npublic inline fun <K, V> MutableMap<K, V>.getOrPut(key: K, defaultValue: () -> V): V {\n val value = get(key)\n return if (value == null) {\n val answer = defaultValue()\n put(key, answer)\n answer\n } else {\n value\n }\n}\n\n/**\n * Returns an [Iterator] over the entries in the [Map].\n *\n * @sample samples.collections.Maps.Usage.forOverEntries\n */\n@kotlin.internal.InlineOnly\npublic
inline operator fun <K, V> Map<out K, V>.iterator(): Iterator<Map.Entry<K, V>> = entries.iterator()\n\n/**\n * Returns a [MutableIterator] over the mutable entries in the [MutableMap].\n *\n */\n@kotlin.jvm.JvmName(\"mutableIterator\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.iterator(): MutableIterator<MutableMap.MutableEntry<K, V>> = entries.iterator()\n\n/**\n * Populates the given [destination] map with entries having the keys of this map and the values obtained\n * by applying the [transform] function to each entry in this [Map].\n */\npublic inline fun <K, V, R, M : MutableMap<in K, in R>> Map<out K, V>.mapValuesTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {\n return entries.associateByTo(destination, { it.key }, transform)\n}\n\n/**\n * Populates the given [destination] map with entries having the keys obtained\n * by applying the [transform] function to each entry in this [Map] and the values of this map.\n
*\n * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite\n * the value associated with the former one.\n */\npublic inline fun <K, V, R, M : MutableMap<in R, in V>> Map<out K, V>.mapKeysTo(destination: M, transform: (Map.Entry<K, V>) -> R): M {\n return entries.associateByTo(destination, transform, { it.value })\n}\n\n/**\n * Puts all the given [pairs] into this [MutableMap] with the first component in the pair being the key and the second the value.\n */\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Array<out Pair<K, V>>): Unit {\n for ((key, value) in pairs) {\n

put(key, value)\n   }\n}\n\n/**\n * Puts all the elements of the given collection into this [MutableMap] with the first component in the pair being the key and the second the value.\n */\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Iterable<Pair<K, V>>): Unit {\n   for ((key, value) in pairs) {\n   put(key, value)\n   }\n}\n\n/**\n
 * Puts all the elements of the given sequence into this [MutableMap] with the first component in the pair being the key and the second the value.\n */\npublic fun <K, V> MutableMap<in K, in V>.putAll(pairs: Sequence<Pair<K, V>>): Unit {\n   for ((key, value) in pairs) {\n   put(key, value)\n   }\n}\n\n/**\n * Returns a new map with entries having the keys of this map and the values obtained by applying the [transform]\n * function to each entry in this [Map].\n *\n * The returned map preserves the entry iteration order of the original map.\n *\n * @sample samples.collections.Maps.Transformations.mapValues\n */\npublic inline fun <K, V, R> Map<out K, V>.mapValues(transform: (Map.Entry<K, V>) -> R): Map<K, R> {\n   return mapValuesTo(LinkedHashMap<K, R>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n * Returns a new Map with entries having the keys obtained by applying the [transform] function to each entry in this\n * [Map] and the values of this map.\n *\n
 * In case if any two entries are mapped to the equal keys, the value of the latter one will overwrite\n * the value associated with the former one.\n *\n * The returned map preserves the entry iteration order of the original map.\n *\n * @sample samples.collections.Maps.Transformations.mapKeys\n */\npublic inline fun <K, V, R> Map<out K, V>.mapKeys(transform: (Map.Entry<K, V>) -> R): Map<R, V> {\n   return mapKeysTo(LinkedHashMap<R, V>(mapCapacity(size)), transform) // .optimizeReadOnlyMap()\n}\n\n/**\n * Returns a map containing all key-value pairs with keys matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n * @sample samples.collections.Maps.Filtering.filterKeys\n */\npublic inline fun <K, V> Map<out K, V>.filterKeys(predicate: (K) -> Boolean): Map<K, V> {\n   val result = LinkedHashMap<K, V>()\n   for (entry in this) {\n   if (predicate(entry.key)) {\n   result.put(entry.key, entry.value)\n   }\n   }\n   return result\n}\n\n/**\n * Returns a map containing all key-value pairs with values matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n * @sample samples.collections.Maps.Filtering.filterValues\n */\npublic inline fun <K, V> Map<out K, V>.filterValues(predicate: (V) -> Boolean): Map<K, V> {\n   val result = LinkedHashMap<K, V>()\n   for (entry in this) {\n   if (predicate(entry.value)) {\n   result.put(entry.key, entry.value)\n   }\n   }\n   return result\n}\n\n/**\n * Appends all entries matching the given [predicate] into the mutable map given as [destination] parameter.\n *\n * @return the destination map.\n * @sample samples.collections.Maps.Filtering.filterTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\n   for (element in this) {\n   if (predicate(element)) {\n   destination.put(element.key,
 element.value)\n   }\n   }\n   return destination\n}\n\n/**\n * Returns a new map containing all key-value pairs matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n * @sample samples.collections.Maps.Filtering.filter\n */\npublic inline fun <K, V> Map<out K, V>.filter(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n   return filterTo(LinkedHashMap<K, V>(), predicate)\n}\n\n/**\n * Appends all entries not matching the given [predicate] into the given [destination].\n *\n * @return the destination map.\n * @sample samples.collections.Maps.Filtering.filterNotTo\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.filterNotTo(destination: M, predicate: (Map.Entry<K, V>) -> Boolean): M {\n   for (element in this) {\n   if (!predicate(element)) {\n   destination.put(element.key, element.value)\n   }\n   }\n   return destination\n}\n\n/**\n * Returns
 a new map containing all key-value pairs not matching the given [predicate].\n *\n * The returned map preserves the entry iteration order of the original map.\n * @sample samples.collections.Maps.Filtering.filterNot\n */\npublic inline fun <K, V> Map<out K, V>.filterNot(predicate: (Map.Entry<K, V>) -> Boolean): Map<K, V> {\n   return filterNotTo(LinkedHashMap<K, V>(), predicate)\n}\n\n/**\n * Returns a new map containing all key-value pairs from the given collection of pairs.\n *\n * The returned map preserves the entry iteration order of the original collection.\n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic fun <K,

V> Iterable<Pair<K, V>>.toMap(): Map<K, V> {\n if (this is Collection) {\n return when (size) {\n 0 -> emptyMap()\n 1 -> mapOf(if (this is List) this[0] else iterator().next())\n else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n }\n }\n return toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs from the given collection of pairs.\n */\npublic fun <K, V, M : MutableMap<in K, in V>> Iterable<Pair<K, V>>.toMap(destination: M): M =\n destination.apply { putAll(this@toMap) }\n\n/**\n * Returns a new map containing all key-value pairs from the given array of pairs.\n *\n * The returned map preserves the entry iteration order of the original array.\n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic fun <K, V> Array<out Pair<K, V>>.toMap(): Map<K, V> = when (size) {\n 0 -> emptyMap()\n 1 -> mapOf(this[0])\n else -> toMap(LinkedHashMap<K, V>(mapCapacity(size)))\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs from the given array of pairs.\n */\npublic fun <K, V, M : MutableMap<in K, in V>> Array<out Pair<K, V>>.toMap(destination: M): M =\n destination.apply { putAll(this@toMap)
}\n\n/**\n * Returns a new map containing all key-value pairs from the given sequence of pairs.\n *\n * The returned map preserves the entry iteration order of the original sequence.\n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic fun <K, V> Sequence<Pair<K, V>>.toMap(): Map<K, V> = toMap(LinkedHashMap<K, V>()).optimizeReadOnlyMap()\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs from the given sequence of pairs.\n */\npublic fun <K, V, M : MutableMap<in K, in V>> Sequence<Pair<K, V>>.toMap(destination: M): M =\n destination.apply { putAll(this@toMap) }\n\n/**\n * Returns a new read-only map containing all key-value pairs from the original map.\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic fun <K, V> Map<out K, V>.toMap(): Map<K, V> = when (size) {\n 0 -> emptyMap()\n 1 -> toSingletonMap()\n else -> toMutableMap()\n}\n\n/**\n
* Returns a new mutable map containing all key-value pairs from the original map.\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic fun <K, V> Map<out K, V>.toMutableMap(): MutableMap<K, V> = LinkedHashMap(this)\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs from the given map.\n */\n@SinceKotlin(\"1.1\")\npublic fun <K, V, M : MutableMap<in K, in V>> Map<out K, V>.toMap(destination: M): M =\n destination.apply { putAll(this@toMap) }\n\n/**\n * Creates a new read-only map by replacing or adding an entry to this map from a given key-value [pair].\n *\n * The returned map preserves the entry iteration order of the original map.\n * The [pair] is iterated in the end if it has a unique key.\n */\npublic operator fun <K, V> Map<out K, V>.plus(pair: Pair<K, V>): Map<K, V> =\n if (this.isEmpty()) mapOf(pair) else LinkedHashMap(this).apply { put(pair.first, pair.second)
}\n\n/**\n * Creates a new read-only map by replacing or adding entries to this map from a given collection of key-value [pairs].\n *\n * The returned map preserves the entry iteration order of the original map.\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] collection.\n */\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Iterable<Pair<K, V>>): Map<K, V> =\n if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }\n\n/**\n * Creates a new read-only map by replacing or adding entries to this map from a given array of key-value [pairs].\n *\n * The returned map preserves the entry iteration order of the original map.\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] array.\n */\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Array<out Pair<K, V>>): Map<K, V> =\n if (this.isEmpty()) pairs.toMap() else LinkedHashMap(this).apply { putAll(pairs) }\n\n/**\n * Creates a new read-only
map by replacing or adding entries to this map from a given sequence of key-value [pairs].\n *\n * The returned map preserves the entry iteration order of the original map.\n * Those [pairs] with unique keys are iterated in the end in the order of [pairs] sequence.\n */\npublic operator fun <K, V> Map<out K, V>.plus(pairs: Sequence<Pair<K, V>>): Map<K, V> =\n LinkedHashMap(this).apply { putAll(pairs) }.optimizeReadOnlyMap()\n\n/**\n * Creates a new read-only map by replacing or adding entries to this map from another [map].\n *\n * The returned map preserves the entry iteration order of the original map.\n * Those entries of another [map] that are missing in this

map are iterated in the end in the order of that [map].\n */\npublic operator fun <K, V> Map<out K, V>.plus(map: Map<out K, V>): Map<K, V> =\n   LinkedHashMap(this).apply { putAll(map) }\n\n\n/**\n * Appends or replaces the given [pair] in this mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pair: Pair<K, V>) {\n   put(pair.first, pair.second)\n}\n\n/**\n * Appends or replaces all pairs from the given collection of [pairs] in this mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Iterable<Pair<K, V>>) {\n   putAll(pairs)\n}\n\n/**\n * Appends or replaces all pairs from the given array of [pairs] in this mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Array<out Pair<K, V>>) {\n   putAll(pairs)\n}\n\n/**\n * Appends or replaces all pairs from the given sequence of [pairs] in this mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<in K, in V>.plusAssign(pairs: Sequence<Pair<K, V>>) {\n   putAll(pairs)\n}\n\n/**\n * Appends or replaces all entries from the given [map] in this mutable map.\n */\n@kotlin.internal.InlineOnly\npublic inline operator
fun <K, V> MutableMap<in K, in V>.plusAssign(map: Map<K, V>) {\n   putAll(map)\n}\n\n/**\n * Returns a map containing all entries of the original map except the entry with the given [key].\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic operator fun <K, V> Map<out K, V>.minus(key: K): Map<K, V> =\n   this.toMutableMap().apply { minusAssign(key) }.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all entries of the original map except those entries\n * the keys of which are contained in the given [keys] collection.\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic operator fun <K, V> Map<out K, V>.minus(keys: Iterable<K>): Map<K, V> =\n   this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all entries of the original map except those entries\n * the keys of which are contained in the
given [keys] array.\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic operator fun <K, V> Map<out K, V>.minus(keys: Array<out K>): Map<K, V> =\n   this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\n\n/**\n * Returns a map containing all entries of the original map except those entries\n * the keys of which are contained in the given [keys] sequence.\n *\n * The returned map preserves the entry iteration order of the original map.\n */\n@SinceKotlin(\"1.1\")\npublic operator fun <K, V> Map<out K, V>.minus(keys: Sequence<K>): Map<K, V> =\n   this.toMutableMap().apply { minusAssign(keys) }.optimizeReadOnlyMap()\n\n/**\n * Removes the entry with the given [key] from this mutable map.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(key: K) {\n   remove(key)\n}\n\n/**\n * Removes all entries the keys of which are contained in the
given [keys] collection from this mutable map.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Iterable<K>) {\n   this.keys.removeAll(keys)\n}\n\n/**\n * Removes all entries the keys of which are contained in the given [keys] array from this mutable map.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Array<out K>) {\n   this.keys.removeAll(keys)\n}\n\n/**\n * Removes all entries from the keys of which are contained in the given [keys] sequence from this mutable map.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <K, V> MutableMap<K, V>.minusAssign(keys: Sequence<K>) {\n   this.keys.removeAll(keys)\n}\n\n\n// do not expose for now @PublishedApi\ninternal fun <K, V> Map<K, V>.optimizeReadOnlyMap() = when (size) {\n   0 -> emptyMap()\n   1 -> toSingletonMapOrSelf()\n   else -> this\n}\n\n","/*\n
* Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SetsKt\")\n\npackage kotlin.collections\n\n\ninternal object EmptySet : Set<Nothing>, Serializable {\n   private const val serialVersionUID: Long = 3406603774387020532\n\n   override fun equals(other: Any?): Boolean = other is

Set<*> && other.isEmpty()\n   override fun hashCode(): Int = 0\n   override fun toString(): String = \"[]\"\n\n override val size: Int get() = 0\n   override fun isEmpty(): Boolean = true\n   override fun contains(element: Nothing): Boolean = false\n   override fun containsAll(elements: Collection<Nothing>): Boolean = elements.isEmpty()\n\n   override fun iterator(): Iterator<Nothing> = EmptyIterator\n\n   private fun readResolve(): Any = EmptySet\n}\n\n\n/**\n * Returns an empty
 read-only set. The returned set is serializable (JVM).\n * @sample
samples.collections.Collections.Sets.emptyReadOnlySet\n */\npublic fun <T> emptySet(): Set<T> = EmptySet\n\n/**\n * Returns a new read-only set with the given elements.\n * Elements of the set are iterated in the order they were specified.\n * The returned set is serializable (JVM).\n * @sample
samples.collections.Collections.Sets.readOnlySet\n */\npublic fun <T> setOf(vararg elements: T): Set<T> = if (elements.size > 0) elements.toSet() else emptySet()\n\n/**\n * Returns an empty read-only set. The returned set is serializable (JVM).\n * @sample samples.collections.Collections.Sets.emptyReadOnlySet\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> setOf(): Set<T> = emptySet()\n\n/**\n * Returns an empty new [MutableSet].\n *\n * The returned set preserves the element iteration order.\n * @sample
samples.collections.Collections.Sets.emptyMutableSet\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic
 inline fun <T> mutableSetOf(): MutableSet<T> = LinkedHashSet()\n\n/**\n * Returns a new [MutableSet] with the given elements.\n * Elements of the set are iterated in the order they were specified.\n * @sample
samples.collections.Collections.Sets.mutableSet\n */\npublic fun <T> mutableSetOf(vararg elements: T): MutableSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/** Returns an empty new [HashSet]. */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> hashSetOf(): HashSet<T> = HashSet()\n\n/** Returns a new [HashSet] with the given elements. */\npublic fun <T> hashSetOf(vararg elements: T): HashSet<T> = elements.toCollection(HashSet(mapCapacity(elements.size)))\n\n/** Returns an empty new [LinkedHashSet]. */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> linkedSetOf(): LinkedHashSet<T> = LinkedHashSet()\n\n/**\n * Returns a new [LinkedHashSet] with the given elements.\n * Elements of the set are iterated
 in the order they were specified.\n */\npublic fun <T> linkedSetOf(vararg elements: T): LinkedHashSet<T> = elements.toCollection(LinkedHashSet(mapCapacity(elements.size)))\n\n/** Returns this Set if it's not `null` and the empty set otherwise. */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>?.orEmpty(): Set<T> = this ?: emptySet()\n\ninternal fun <T> Set<T>.optimizeReadOnlySet() = when (size) {\n   0 -> emptySet()\n   1 -> setOf(iterator().next())\n   else -> this\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n@file:Suppress(\"PLATFORM_CLASS_MAPPED_TO_KOTLIN\")\n\npackage kotlin.text\n\n/**\n * Parses the string as a signed [Byte] number and returns the result\n * or `null` if the string is not a valid representation of
 a number.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toByteOrNull(): Byte? = toByteOrNull(radix = 10)\n\n/**\n * Parses the string as a signed [Byte] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toByteOrNull(radix: Int): Byte? {\n   val int = this.toIntOrNull(radix) ?: return null\n   if (int < Byte.MIN_VALUE || int > Byte.MAX_VALUE) return null\n   return int.toByte()\n}\n\n/**\n * Parses the string as a [Short] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toShortOrNull(): Short? = toShortOrNull(radix = 10)\n\n/**\n * Parses the string as a [Short] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException
 when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toShortOrNull(radix: Int): Short? {\n   val int = this.toIntOrNull(radix) ?: return null\n   if (int < Short.MIN_VALUE || int > Short.MAX_VALUE) return null\n   return int.toShort()\n}\n\n/**\n * Parses the string

as an [Int] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toIntOrNull(): Int? = toIntOrNull(radix = 10)\n\n/**\n * Parses the string as an [Int] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toIntOrNull(radix: Int): Int? {\n checkRadix(radix)\n\n val length = this.length\n if (length == 0) return null\n\n val start: Int\n

val isNegative: Boolean\n val limit: Int\n\n val firstChar = this[0]\n if (firstChar < '0') { // Possible leading sign\n if (length == 1) return null // non-digit (possible sign) only, no digits after\n\n start = 1\n\n if (firstChar == '-') {\n isNegative = true\n limit = Int.MIN_VALUE\n } else if (firstChar == '+') {\n isNegative = false\n limit = -Int.MAX_VALUE\n } else\n return null\n } else {\n start = 0\n isNegative = false\n limit = -Int.MAX_VALUE\n }\n\n\n val limitForMaxRadix = (-Int.MAX_VALUE) / 36\n\n var limitBeforeMul = limitForMaxRadix\n var result = 0\n for (i in start until length) {\n val digit = digitOf(this[i], radix)\n\n if (digit < 0) return null\n if (result < limitBeforeMul) {\n if (limitBeforeMul == limitForMaxRadix) {\n limitBeforeMul = limit / radix\n\n if (result

< limitBeforeMul) {\n return null\n }\n } else {\n return null\n }\n }\n\n result *= radix\n\n if (result < limit + digit) return null\n\n result -= digit\n }\n\n return if (isNegative) result else -result\n}\n\n/**\n * Parses the string as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toLongOrNull(): Long? = toLongOrNull(radix = 10)\n\n/**\n * Parses the string as a [Long] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.1\")\npublic fun String.toLongOrNull(radix: Int): Long? {\n checkRadix(radix)\n\n val length = this.length\n if (length == 0) return null\n\n val start: Int\n

val isNegative: Boolean\n val limit: Long\n\n val firstChar = this[0]\n if (firstChar < '0') { // Possible leading sign\n if (length == 1) return null // non-digit (possible sign) only, no digits after\n\n start = 1\n\n if (firstChar == '-') {\n isNegative = true\n limit = Long.MIN_VALUE\n } else if (firstChar == '+') {\n isNegative = false\n limit = -Long.MAX_VALUE\n } else\n return null\n } else {\n start = 0\n isNegative = false\n limit = -Long.MAX_VALUE\n }\n\n\n val limitForMaxRadix = (-Long.MAX_VALUE) / 36\n\n var limitBeforeMul = limitForMaxRadix\n var result = 0L\n for (i in start until length) {\n val digit = digitOf(this[i], radix)\n\n if (digit < 0) return null\n if (result < limitBeforeMul) {\n if (limitBeforeMul == limitForMaxRadix) {\n limitBeforeMul = limit / radix\n\n

if (result < limitBeforeMul) {\n return null\n }\n } else {\n return null\n }\n }\n\n result *= radix\n\n if (result < limit + digit) return null\n\n result -= digit\n }\n\n return if (isNegative) result else -result\n}\n\n\ninternal fun numberFormatError(input: String): Nothing = throw NumberFormatException(\"Invalid number format: '$input'\")\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n@file:kotlin.jvm.JvmName(\"UnsignedKt\")\n@file:UseExperimental(ExperimentalUnsignedTypes::class)\npackage kotlin\n\n@PublishedApi\ninternal fun uintCompare(v1: Int, v2: Int): Int = (v1 xor Int.MIN_VALUE).compareTo(v2 xor Int.MIN_VALUE)\n@PublishedApi\ninternal fun ulongCompare(v1: Long, v2: Long): Int = (v1 xor Long.MIN_VALUE).compareTo(v2

xor Long.MIN_VALUE)\n\n@PublishedApi\ninternal fun uintDivide(v1: UInt, v2: UInt): UInt = (v1.toLong() / v2.toLong()).toUInt()\n@PublishedApi\ninternal fun uintRemainder(v1: UInt, v2: UInt): UInt = (v1.toLong() % v2.toLong()).toUInt()\n\n// Division and remainder are based on Guava's UnsignedLongs implementation\n// Copyright 2011 The Guava Authors\n\n@PublishedApi\ninternal fun ulongDivide(v1: ULong, v2: ULong): ULong {\n val dividend = v1.toLong()\n val divisor = v2.toLong()\n if (divisor < 0) { // i.e., divisor >= 2^63:\n

return if (v1 < v2) ULong(0) else ULong(1)\n   }\n\n   // Optimization - use signed division if both dividend and divisor < 2^63\n   if (dividend >= 0) {\n   return ULong(dividend / divisor)\n   }\n\n   // Otherwise, approximate the quotient, check, and correct if necessary.\n   val quotient = ((dividend ushr 1) / divisor) shl 1\n   val rem = dividend - quotient * divisor\n   return ULong(quotient + if (ULong(rem) >= ULong(divisor))
1 else 0)\n\n}\n\n@PublishedApi\ninternal fun ulongRemainder(v1: ULong, v2: ULong): ULong {\n   val dividend = v1.toLong()\n   val divisor = v2.toLong()\n   if (divisor < 0) { // i.e., divisor >= 2^63:\n   return if (v1 < v2) {\n   v1 // dividend < divisor\n   } else {\n   v1 - v2 // dividend >= divisor\n   }\n   }\n\n   // Optimization - use signed modulus if both dividend and divisor < 2^63\n   if (dividend >= 0) {\n   return ULong(dividend % divisor)\n   }\n\n   // Otherwise, approximate the quotient, check, and correct if necessary.\n   val quotient = ((dividend ushr 1) / divisor) shl 1\n   val rem = dividend - quotient * divisor\n   return ULong(rem - if (ULong(rem) >= ULong(divisor)) divisor else 0)\n}\n\n@PublishedApi\ninternal fun doubleToUInt(v: Double): UInt = when {\n   v.isNaN() -> 0u\n   v <= UInt.MIN_VALUE.toDouble() -> UInt.MIN_VALUE\n   v >= UInt.MAX_VALUE.toDouble() -> UInt.MAX_VALUE\n   v <= Int.MAX_VALUE
-> v.toInt().toUInt()\n   else -> (v - Int.MAX_VALUE).toInt().toUInt() + Int.MAX_VALUE.toUInt()   // Int.MAX_VALUE < v < UInt.MAX_VALUE\n}\n\n@PublishedApi\ninternal fun doubleToULong(v: Double): ULong = when {\n   v.isNaN() -> 0u\n   v <= ULong.MIN_VALUE.toDouble() -> ULong.MIN_VALUE\n   v >= ULong.MAX_VALUE.toDouble() -> ULong.MAX_VALUE\n   v < Long.MAX_VALUE -> v.toLong().toULong()\n\n   // Real values from Long.MAX_VALUE to (Long.MAX_VALUE + 1) are not representable in Double, so don't handle them.\n   else -> (v - 9223372036854775808.0).toLong().toULong() + 9223372036854775808uL   // Long.MAX_VALUE + 1 < v < ULong.MAX_VALUE\n}\n\n\n@PublishedApi\ninternal fun uintToDouble(v: Int): Double = (v and Int.MAX_VALUE).toDouble() + (v ushr 31 shl 30).toDouble() * 2\n\n@PublishedApi\ninternal fun ulongToDouble(v: Long): Double = (v ushr 11).toDouble() * 2048 + (v and 2047)\n\n\ninternal fun ulongToString(v: Long): String = ulongToString(v, 10)\n\ninternal fun ulongToString(v:
Long, base: Int): String {\n   if (v >= 0) return v.toString(base)\n\n   var quotient = ((v ushr 1) / base) shl 1\n   var rem = v - quotient * base\n   if (rem >= base) {\n   rem -= base\n   quotient += 1\n   }\n   return quotient.toString(base) + rem.toString(base)\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\n/**\n * Given an [iterator] function constructs an [Iterable] instance that returns values through the [Iterator]\n * provided by that function.\n * @sample samples.collections.Iterables.Building.iterable\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable(crossinline iterator: () -> Iterator<T>): Iterable<T> = object : Iterable<T> {\n   override fun iterator(): Iterator<T>
= iterator()\n}\n\n/**\n * A wrapper over another [Iterable] (or any other object that can produce an [Iterator]) that returns\n * an indexing iterator.\n */\ninternal class IndexingIterable<out T>(private val iteratorFactory: () -> Iterator<T>) : Iterable<IndexedValue<T>> {\n   override fun iterator(): Iterator<IndexedValue<T>> = IndexingIterator(iteratorFactory())\n}\n\n\n/**\n * Returns the size of this iterable if it is known, or `null` otherwise.\n */\n@PublishedApi\ninternal fun <T> Iterable<T>.collectionSizeOrNull(): Int? = if (this is Collection<*>) this.size else null\n\n/**\n * Returns the size of this iterable if it is known, or the specified [default] value otherwise.\n */\n@PublishedApi\ninternal fun <T> Iterable<T>.collectionSizeOrDefault(default: Int): Int = if (this is Collection<*>) this.size else default\n\n/** Returns true when it's safe to convert this collection to a set without changing contains method behavior. */\nprivate fun <T> Collection<T>.safeToConvertToSet()
= size > 2 && this is ArrayList\n\n/** Converts this collection to a set, when it's worth so and it doesn't change contains method behavior. */\ninternal fun <T> Iterable<T>.convertToSetForSetOperationWith(source: Iterable<T>): Collection<T> =\n   when (this) {\n   is Set -> this\n   is Collection ->\n   when {\n   source is Collection && source.size < 2 -> this\n   else -> if (this.safeToConvertToSet()) toHashSet() else this\n   }\n   else -> toHashSet()\n   }\n\n/** Converts this collection to a set, when it's worth so and it

doesn't change contains method behavior. */\ninternal fun <T> Iterable<T>.convertToSetForSetOperation(): Collection<T> =\n   when (this) {\n   is Set -> this\n   is Collection -> if (this.safeToConvertToSet()) toHashSet() else this\n   else -> toHashSet()\n   }\n\n\n/**\n * Returns a single list of all elements from all collections in the given collection.\n * @sample samples.collections.Iterables.Operations.flattenIterable\n */\npublic fun <T> Iterable<Iterable<T>>.flatten(): List<T> {\n   val result = ArrayList<T>()\n   for (element in this) {\n   result.addAll(element)\n   }\n   return result\n}\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from the first values of each pair from this collection,\n * *second* list is built from the second values of each pair from this collection.\n * @sample samples.collections.Iterables.Operations.unzipIterable\n */\npublic fun <T, R> Iterable<Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n   val expectedSize = collectionSizeOrDefault(10)\n   val listT = ArrayList<T>(expectedSize)\n   val listR = ArrayList<R>(expectedSize)\n   for (pair in this) {\n   listT.add(pair.first)\n   listR.add(pair.second)\n   }\n   return listT to listR\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SequencesKt\")\n\npackage kotlin.sequences\n\n/**\n * Given an [iterator] function constructs a [Sequence] that returns values through the [Iterator]\n * provided by that function.\n * The values are evaluated lazily, and the sequence is potentially infinite.\n *\n * @sample samples.collections.Sequences.Building.sequenceFromIterator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence(crossinline iterator: () -> Iterator<T>): Sequence<T> = object : Sequence<T> {\n   override fun iterator(): Iterator<T> = iterator()\n}\n\n/**\n * Creates a sequence that returns all elements from this iterator. The sequence is constrained to be iterated only once.\n *\n * @sample samples.collections.Sequences.Building.sequenceFromIterator\n */\npublic fun <T> Iterator<T>.asSequence(): Sequence<T> = Sequence { this }.constrainOnce()\n\n/**\n * Creates a sequence that returns the specified values.\n *\n * @sample samples.collections.Sequences.Building.sequenceOfValues\n */\npublic fun <T> sequenceOf(vararg elements: T): Sequence<T> = if (elements.isEmpty()) emptySequence() else elements.asSequence()\n\n/**\n * Returns an empty sequence.\n */\npublic fun <T> emptySequence(): Sequence<T> = EmptySequence\n\nprivate object EmptySequence : Sequence<Nothing>, DropTakeSequence<Nothing> {\n   override fun iterator(): Iterator<Nothing> = EmptyIterator\n   override fun drop(n: Int) = EmptySequence\n   override fun take(n: Int) = EmptySequence\n}\n\n/**\n * Returns this sequence if it's not `null` and the empty sequence otherwise.\n * @sample samples.collections.Sequences.Usage.sequenceOrEmpty\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>?.orEmpty(): Sequence<T> = this ?: emptySequence()\n\n\n/**\n * Returns a sequence that iterates through the elements either of this sequence\n * or, if this sequence turns out to be empty, of the sequence returned by [defaultValue] function.\n *\n * @sample samples.collections.Sequences.Usage.sequenceIfEmpty\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> Sequence<T>.ifEmpty(defaultValue: () -> Sequence<T>): Sequence<T> = sequence {\n   val iterator = this@ifEmpty.iterator()\n   if (iterator.hasNext()) {\n   yieldAll(iterator)\n   } else {\n   yieldAll(defaultValue())\n   }\n}\n\n/**\n * Returns a sequence of all elements from all sequences in this sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T> Sequence<Sequence<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\n\n/**\n * Returns a sequence of all elements from all iterables in this sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@kotlin.jvm.JvmName(\"flattenSequenceOfIterable\")\npublic fun <T> Sequence<Iterable<T>>.flatten(): Sequence<T> = flatten { it.iterator() }\n\nprivate fun <T, R> Sequence<T>.flatten(iterator: (T) -> Iterator<R>): Sequence<R> {\n   if (this is TransformingSequence<*, *>) {\n   return (this as TransformingSequence<*, T>).flatten(iterator)\n   }\n   return FlatteningSequence(this, { it }, iterator)\n}\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from the first values of each pair from this sequence,\n * *second* list is built from the second values of each pair from this sequence.\n *\n * The operation is _terminal_.\n

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*/\npublic fun <T, R> Sequence<Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n    val listT = ArrayList<T>()\n    val listR = ArrayList<R>()\n    for (pair in this) {\n        listT.add(pair.first)\n        listR.add(pair.second)\n    }\n    return listT to listR\n}\n\n/**\n * A sequence that returns the values from the underlying [sequence] that either match or do not match\n * the specified [predicate].\n *\n * @param sendWhen If `true`, values for which the predicate returns `true` are returned. Otherwise,\n * values for
    which the predicate returns `false` are returned\n */\ninternal class FilteringSequence<T>(\n    private val sequence: Sequence<T>,\n    private val sendWhen: Boolean = true,\n    private val predicate: (T) -> Boolean\n) : Sequence<T> {\n\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator = sequence.iterator()\n        var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n        var nextItem: T? = null\n\n        private fun calcNext() {\n            while (iterator.hasNext()) {\n                val item = iterator.next()\n                if (predicate(item) == sendWhen) {\n                    nextItem = item\n                    nextState = 1\n                    return\n                }\n            }\n            nextState = 0\n        }\n\n        override fun next(): T {\n            if (nextState == -1)\n                calcNext()\n            if (nextState == 0)\n                throw NoSuchElementException()\n            val result = nextItem\n            nextItem = null\n            nextState = -1\n            @Suppress(\"UNCHECKED_CAST\")\n            return result as T\n        }\n\n        override fun hasNext(): Boolean {\n            if (nextState == -1)\n                calcNext()\n            return nextState == 1\n        }\n    }\n}\n\n/**\n * A sequence which returns the results of applying the given [transformer] function to the values\n * in the underlying [sequence].\n */\n\ninternal class TransformingSequence<T, R>\nconstructor(private val sequence: Sequence<T>, private val transformer: (T) -> R) : Sequence<R> {\n    override fun iterator(): Iterator<R> = object : Iterator<R> {\n        val iterator = sequence.iterator()\n        override fun next(): R {\n            return transformer(iterator.next())\n        }\n\n        override fun hasNext(): Boolean {\n            return iterator.hasNext()\n        }\n    }\n\n    internal fun <E> flatten(iterator: (R) -> Iterator<E>): Sequence<E>
    {\n        return FlatteningSequence<T, R, E>(sequence, transformer, iterator)\n    }\n}\n\n/**\n * A sequence which returns the results of applying the given [transformer] function to the values\n * in the underlying [sequence], where the transformer function takes the index of the value in the underlying\n * sequence along with the value itself.\n */\ninternal class TransformingIndexedSequence<T, R>\nconstructor(private val sequence: Sequence<T>, private val transformer: (Int, T) -> R) : Sequence<R> {\n    override fun iterator(): Iterator<R> = object : Iterator<R> {\n        val iterator = sequence.iterator()\n        var index = 0\n        override fun next(): R {\n            return transformer(checkIndexOverflow(index++), iterator.next())\n        }\n\n        override fun hasNext(): Boolean {\n            return iterator.hasNext()\n        }\n    }\n}\n\n/**\n * A sequence which combines values from the underlying [sequence] with their indices and returns them as\n * [IndexedValue]
    objects.\n */\ninternal class IndexingSequence<T>\nconstructor(private val sequence: Sequence<T>) : Sequence<IndexedValue<T>> {\n    override fun iterator(): Iterator<IndexedValue<T>> = object : Iterator<IndexedValue<T>> {\n        val iterator = sequence.iterator()\n        var index = 0\n        override fun next(): IndexedValue<T> {\n            return IndexedValue(checkIndexOverflow(index++), iterator.next())\n        }\n\n        override fun hasNext(): Boolean {\n            return iterator.hasNext()\n        }\n    }\n}\n\n/**\n * A sequence which takes the values from two parallel underlying sequences, passes them to the given\n * [transform] function and returns the values returned by that function. The sequence stops returning\n * values as soon as one of the underlying sequences stops returning values.\n */\ninternal class MergingSequence<T1, T2, V>\nconstructor(\n    private val sequence1: Sequence<T1>,\n    private val sequence2: Sequence<T2>,\n    private val transform: (T1, T2) -> V\n) : Sequence<V> {\n    override fun iterator(): Iterator<V> = object : Iterator<V> {\n        val iterator1 = sequence1.iterator()\n        val iterator2 = sequence2.iterator()\n        override fun next(): V {\n            return transform(iterator1.next(), iterator2.next())\n        }\n\n        override fun hasNext(): Boolean {\n            return iterator1.hasNext() && iterator2.hasNext()\n        }\n    }\n}\n\ninternal class FlatteningSequence<T, R, E>\nconstructor(\n    private val sequence: Sequence<T>,\n    private val transformer: (T) -> R,\n    private val iterator: (R) -> Iterator<E>\n) : Sequence<E> {\n    override fun iterator(): Iterator<E> = object : Iterator<E> {\n        val iterator = sequence.iterator()\n        var itemIterator: Iterator<E>? = null\n\n        override fun next(): E {\n            if (!ensureItemIterator())\n                throw NoSuchElementException()\n            return itemIterator!!.next()\n
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}\n\n        override fun
 hasNext(): Boolean {\n            return ensureItemIterator()\n        }\n\n        private fun ensureItemIterator(): Boolean
 {\n            if (itemIterator?.hasNext() == false)\n                itemIterator = null\n\n            while (itemIterator == null)
 {\n                if (!iterator.hasNext()) {\n                    return false\n                } else {\n                    val element =
 iterator.next()\n                    val nextItemIterator = iterator(transformer(element))\n                    if
 (nextItemIterator.hasNext()) {\n                        itemIterator = nextItemIterator\n                        return true\n
   }\n                }\n            }\n            return true\n        }\n    }\n}\n\n/**\n * A sequence that supports drop(n) and
 take(n) operations\n */\ninternal interface DropTakeSequence<T> : Sequence<T> {\n    fun drop(n: Int):
 Sequence<T>\n    fun take(n: Int): Sequence<T>\n}\n\n/**\n * A sequence that skips [startIndex] values
  from the underlying [sequence]\n * and stops returning values right before [endIndex], i.e. stops at `endIndex - 1`\n
 */\ninternal class SubSequence<T>(\n    private val sequence: Sequence<T>,\n    private val startIndex: Int,\n
 private val endIndex: Int\n) : Sequence<T>, DropTakeSequence<T> {\n\n    init {\n        require(startIndex >= 0) {
 \"startIndex should be non-negative, but is $startIndex\" }\n        require(endIndex >= 0) { \"endIndex should be
 non-negative, but is $endIndex\" }\n        require(endIndex >= startIndex) { \"endIndex should be not less than
 startIndex, but was $endIndex < $startIndex\" }\n    }\n\n    private val count: Int get() = endIndex - startIndex\n\n
 override fun drop(n: Int): Sequence<T> = if (n >= count) emptySequence() else SubSequence(sequence, startIndex
 + n, endIndex)\n    override fun take(n: Int): Sequence<T> = if (n >= count) this else SubSequence(sequence,
 startIndex, startIndex + n)\n\n    override fun iterator() = object : Iterator<T>
  {\n\n        val iterator = sequence.iterator()\n        var position = 0\n\n        // Shouldn't be called from constructor to
 avoid premature iteration\n        private fun drop() {\n            while (position < startIndex && iterator.hasNext()) {\n
             iterator.next()\n                position++\n            }\n        }\n\n        override fun hasNext(): Boolean {\n
 drop()\n            return (position < endIndex) && iterator.hasNext()\n        }\n\n        override fun next(): T {\n
 drop()\n            if (position >= endIndex)\n                throw NoSuchElementException()\n            position++\n
 return iterator.next()\n        }\n    }\n}\n\n/**\n * A sequence that returns at most [count] values from the underlying
 [sequence], and stops returning values\n * as soon as that count is reached.\n */\ninternal class TakeSequence<T>(\n
   private val sequence: Sequence<T>,\n    private val count: Int\n) : Sequence<T>, DropTakeSequence<T>
  {\n\n    init {\n        require(count >= 0) { \"count must be non-negative, but was $count.\" }\n    }\n\n    override fun
 drop(n: Int): Sequence<T> = if (n >= count) emptySequence() else SubSequence(sequence, n, count)\n    override
 fun take(n: Int): Sequence<T> = if (n >= count) this else TakeSequence(sequence, n)\n\n    override fun iterator():
 Iterator<T> = object : Iterator<T> {\n        var left = count\n        val iterator = sequence.iterator()\n\n        override
 fun next(): T {\n            if (left == 0)\n                throw NoSuchElementException()\n            left--\n            return
 iterator.next()\n        }\n\n        override fun hasNext(): Boolean {\n            return left > 0 && iterator.hasNext()\n
 }\n    }\n}\n\n/**\n * A sequence that returns values from the underlying [sequence] while the [predicate] function
 returns\n * `true`, and stops returning values once the function returns `false` for the next element.\n */\ninternal
 class TakeWhileSequence<T>\nconstructor(\n
    private val sequence: Sequence<T>,\n    private val predicate: (T) -> Boolean\n) : Sequence<T> {\n    override
 fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator = sequence.iterator()\n        var nextState: Int = -
 1 // -1 for unknown, 0 for done, 1 for continue\n        var nextItem: T? = null\n\n        private fun calcNext() {\n
  if (iterator.hasNext()) {\n                val item = iterator.next()\n                if (predicate(item)) {\n
 nextState = 1\n                    nextItem = item\n                    return\n                }\n            }\n            nextState = 0\n
 }\n\n        override fun next(): T {\n            if (nextState == -1)\n                calcNext() // will change nextState\n
  if (nextState == 0)\n                throw NoSuchElementException()\n            @Suppress(\"UNCHECKED_CAST\")\n
         val result = nextItem as T\n\n            // Clean next to avoid keeping
  reference on yielded instance\n            nextItem = null\n            nextState = -1\n            return result\n        }\n\n
 override fun hasNext(): Boolean {\n            if (nextState == -1)\n                calcNext() // will change nextState\n
   return nextState == 1\n        }\n    }\n}\n\n/**\n * A sequence that skips the specified number of values from the
 underlying [sequence] and returns\n * all values after that.\n */\ninternal class DropSequence<T>(\n    private val
 sequence: Sequence<T>,\n    private val count: Int\n) : Sequence<T>, DropTakeSequence<T> {\n    init {\n
```

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require(count >= 0) { \"count must be non-negative, but was $count.\" }\n    }\n\n    override fun drop(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) DropSequence(this, n) else DropSequence(sequence, n1) }\n override fun take(n: Int): Sequence<T> = (count + n).let { n1 -> if (n1 < 0) TakeSequence(this, n) else SubSequence(sequence, count, n1) }\n\n    override
 fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator = sequence.iterator()\n        var left = count\n\n
    // Shouldn't be called from constructor to avoid premature iteration\n        private fun drop() {\n            while (left > 0 && iterator.hasNext()) {\n                iterator.next()\n                left--\n            }\n        }\n\n        override fun next(): T {\n            drop()\n            return iterator.next()\n        }\n\n        override fun hasNext(): Boolean {\n            drop()\n            return iterator.hasNext()\n        }\n    }\n}\n\n/**\n * A sequence that skips the values from the underlying [sequence] while the given [predicate] returns `true` and returns\n * all values after that.\n */\ninternal class DropWhileSequence<T>\nconstructor(\n    private val sequence: Sequence<T>,\n    private val predicate: (T) -> Boolean\n) : Sequence<T> {\n\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        val iterator
 = sequence.iterator()\n        var dropState: Int = -1 // -1 for not dropping, 1 for nextItem, 0 for normal iteration\n        var nextItem: T? = null\n\n        private fun drop() {\n            while (iterator.hasNext()) {\n                val item = iterator.next()\n                if (!predicate(item)) {\n                    nextItem = item\n                    dropState = 1\n                    return\n                }\n            }\n            dropState = 0\n        }\n\n        override fun next(): T {\n            if (dropState == -1)\n                drop()\n\n            if (dropState == 1) {\n                @Suppress(\"UNCHECKED_CAST\")\n                val result = nextItem as T\n                nextItem = null\n                dropState = 0\n                return result\n            }\n            return iterator.next()\n        }\n\n        override fun hasNext(): Boolean {\n            if (dropState == -1)\n                drop()\n            return dropState ==
 1 || iterator.hasNext()\n        }\n    }\n}\n\ninternal class DistinctSequence<T, K>(private val source: Sequence<T>, private val keySelector: (T) -> K) : Sequence<T> {\n    override fun iterator(): Iterator<T> = DistinctIterator(source.iterator(), keySelector)\n}\n\nprivate class DistinctIterator<T, K>(private val source: Iterator<T>, private val keySelector: (T) -> K) : AbstractIterator<T>() {\n    private val observed = HashSet<K>()\n\n    override fun computeNext() {\n        while (source.hasNext()) {\n            val next = source.next()\n            val key = keySelector(next)\n\n            if (observed.add(key)) {\n                setNext(next)\n                return\n            }\n        }\n\n        done()\n    }\n}\n\n\nprivate class GeneratorSequence<T : Any>(private val getInitialValue: () -> T?, private val getNextValue: (T) -> T?) : Sequence<T> {\n    override fun iterator(): Iterator<T> = object : Iterator<T> {\n        var nextItem: T? = null\n        var nextState:
 Int = -2 // -2 for initial unknown, -1 for next unknown, 0 for done, 1 for continue\n\n        private fun calcNext() {\n            nextItem = if (nextState == -2) getInitialValue() else getNextValue(nextItem!!)\n            nextState = if (nextItem == null) 0 else 1\n        }\n\n        override fun next(): T {\n            if (nextState < 0)\n                calcNext()\n\n            if (nextState == 0)\n                throw NoSuchElementException()\n            val result = nextItem as T\n            // Do not clean nextItem (to avoid keeping reference on yielded instance) -- need to keep state for getNextValue\n            nextState = -1\n            return result\n        }\n\n        override fun hasNext(): Boolean {\n            if (nextState < 0)\n                calcNext()\n            return nextState == 1\n        }\n    }\n}\n\n/**\n * Returns a wrapper sequence that provides values of this sequence, but ensures it can be iterated only one time.\n *\n * The operation
 is _intermediate_ and _stateless_.\n *\n * [IllegalStateException] is thrown on iterating the returned sequence from the second time.\n *\n */\npublic fun <T> Sequence<T>.constrainOnce(): Sequence<T> {\n    // as? does not work in js\n    //return this as? ConstrainedOnceSequence<T> ?: ConstrainedOnceSequence(this)\n    return if (this is ConstrainedOnceSequence<T>) this else ConstrainedOnceSequence(this)\n}\n\n\n/**\n * Returns a sequence which invokes the function to calculate the next value on each iteration until the function returns `null`.\n *\n * The returned sequence is constrained to be iterated only once.\n *\n * @see constrainOnce\n * @see kotlin.sequences.sequence\n *\n * @sample samples.collections.Sequences.Building.generateSequence\n */\npublic fun <T : Any> generateSequence(nextFunction: () -> T?): Sequence<T> {\n    return GeneratorSequence(nextFunction, { nextFunction() }).constrainOnce()\n}\n\n/**\n * Returns a sequence defined by the starting value [seed] and the function
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[nextFunction],\n * which is invoked to calculate the next value based on the previous one on each iteration.\n *\n * The sequence produces values until it encounters first `null` value.\n * If [seed] is `null`, an empty sequence is produced.\n *\n * The sequence can be iterated multiple times, each time starting with [seed].\n *\n * @see kotlin.sequences.sequence\n *\n * @sample samples.collections.Sequences.Building.generateSequenceWithSeed\n */\n@kotlin.internal.LowPriorityInOverloadResolution\npublic fun <T : Any> generateSequence(seed: T?, nextFunction: (T) -> T?): Sequence<T> =\n if (seed == null)\n EmptySequence\n else\n GeneratorSequence({ seed }, nextFunction)\n\n/**\n * Returns a sequence defined by the function [seedFunction], which is invoked to produce the starting value,\n * and the [nextFunction], which is invoked to calculate the next value based on the previous one on each iteration.\n *\n * The sequence produces values until it encounters first `null` value.\n * If [seedFunction] returns `null`, an empty sequence is produced.\n *\n * The sequence can be iterated multiple times.\n *\n * @see kotlin.sequences.sequence\n *\n * @sample samples.collections.Sequences.Building.generateSequenceWithLazySeed\n */\npublic fun <T : Any> generateSequence(seedFunction: () -> T?, nextFunction: (T) -> T?): Sequence<T> =\n GeneratorSequence(seedFunction, nextFunction)\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"PreconditionsKt\")\n\npackage kotlin\n\nimport kotlin.contracts.contract\n\n/**\n * Throws an [IllegalArgumentException] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun require(value: Boolean): Unit {\n contract {\n returns() implies value\n }\n require(value) { \"Failed requirement.\" }\n}\n\n/**\n * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun require(value: Boolean, lazyMessage: () -> Any): Unit {\n contract {\n returns() implies value\n }\n if (!value) {\n val message = lazyMessage()\n throw IllegalArgumentException(message.toString())\n }\n}\n\n/**\n * Throws an [IllegalArgumentException] if the [value] is null. Otherwise returns the not null value.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> requireNotNull(value: T?): T {\n contract {\n returns() implies (value != null)\n }\n return requireNotNull(value) { \"Required value was null.\" }\n}\n\n/**\n * Throws an [IllegalArgumentException] with the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample samples.misc.Preconditions.failRequireWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> requireNotNull(value: T?, lazyMessage: () -> Any): T {\n contract {\n returns() implies (value != null)\n }\n\n if (value == null) {\n val message = lazyMessage()\n throw IllegalArgumentException(message.toString())\n } else {\n return value\n }\n}\n\n/**\n * Throws an [IllegalStateException] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun check(value: Boolean): Unit {\n contract {\n returns() implies value\n }\n check(value) { \"Check failed.\" }\n}\n\n/**\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is false.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun check(value: Boolean, lazyMessage: () -> Any): Unit {\n contract {\n returns() implies value\n }\n if (!value) {\n val message = lazyMessage()\n throw IllegalStateException(message.toString())\n }\n}\n\n/**\n * Throws an [IllegalStateException] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Any> checkNotNull(value: T?): T {\n contract {\n returns() implies (value != null)\n }\n return checkNotNull(value) { \"Required value was null.\" }\n}\n\n/**\n * Throws an [IllegalStateException] with the result of calling [lazyMessage] if the [value] is null. Otherwise\n * returns the not null value.\n *\n * @sample samples.misc.Preconditions.failCheckWithLazyMessage\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T :

Any> checkNotNull(value:
T?, lazyMessage: () -> Any): T {\n contract {\n returns() implies (value != null)\n }\n\n if (value == null) {\n val message = lazyMessage()\n throw IllegalStateException(message.toString())\n } else {\n return value\n }\n}\n\n\n/**\n * Throws an [IllegalStateException] with the given [message].\n *\n * @sample samples.misc.Preconditions.failWithError\n */\n@kotlin.internal.InlineOnly\npublic inline fun error(message: Any): Nothing = throw IllegalStateException(message.toString())\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\nimport primitiveArrayConcat\nimport withType\nimport
kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun <T> Array<out T>.elementAt(index: Int): T {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun ByteArray.elementAt(index: Int): Byte {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n
*/\npublic actual fun ShortArray.elementAt(index: Int): Short {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun IntArray.elementAt(index: Int): Int {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun LongArray.elementAt(index: Int): Long {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index]
or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun FloatArray.elementAt(index: Int): Float {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun DoubleArray.elementAt(index: Int): Double {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun BooleanArray.elementAt(index: Int): Boolean {\n return
elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun CharArray.elementAt(index: Int): Char {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size\") }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic actual fun <T> Array<out T>.asList(): List<T> {\n return ArrayList<T>(this.unsafeCast<Array<Any?>>())\n}\n\n/**\n * Returns a [List] that wraps the original array.\n

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*/\n@kotlin.internal.InlineOnly\npublic actual inline fun ByteArray.asList(): List<Byte> {\n    return this.unsafeCast<Array<Byte>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun ShortArray.asList(): List<Short> {\n    return this.unsafeCast<Array<Short>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun IntArray.asList(): List<Int> {\n    return this.unsafeCast<Array<Int>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun LongArray.asList(): List<Long> {\n    return this.unsafeCast<Array<Long>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun FloatArray.asList(): List<Float> {\n    return this.unsafeCast<Array<Float>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun DoubleArray.asList(): List<Double> {\n    return this.unsafeCast<Array<Double>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun BooleanArray.asList(): List<Boolean> {\n    return this.unsafeCast<Array<Boolean>>().asList()\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\npublic actual fun CharArray.asList(): List<Char> {\n    return object : AbstractList<Char>(), RandomAccess {\n        override val size: Int get() = this@asList.size\n        override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override fun contains(element: Char): Boolean = this@asList.contains(element)\n        override fun get(index: Int): Char {\n            AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n        override fun indexOf(element: Char): Int {\n            if ((element as Any?) !is Char) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element: Char): Int {\n            if ((element as Any?) !is Char) return -1\n            return this@asList.lastIndexOf(element)\n        }\n    }\n}\n\n/**\n * Returns `true` if the two specified arrays are *deeply* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * If two corresponding elements are nested arrays, they are also compared deeply.\n * If any of arrays contains itself on any nesting level the behavior is undefined.\n * \n * The elements of other types are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayDeepEquals\")\npublic actual infix fun <T> Array<out T>.contentDeepEquals(other: Array<out T>): Boolean {\n    definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level the behavior is undefined.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayDeepHashCode\")\npublic actual fun <T> Array<out T>.contentDeepHashCode(): Int {\n    definedExternally\n}\n\n/**\n * Returns a string representation of the contents of this array as if it is a [List].\n * Nested arrays are treated as lists too.\n * \n * If any of arrays contains itself on any nesting level that reference\n * is rendered as `\"[...]\"` to prevent recursion.\n * \n * @sample samples.collections.Arrays.ContentOperations.contentDeepToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayDeepToString\")\npublic actual fun <T> Array<out T>.contentDeepToString(): String {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun <T> Array<out T>.contentEquals(other: Array<out T>): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun ByteArray.contentEquals(other: ByteArray): Boolean {\n    definedExternally\n}\n\n/**\n * Returns `true` if the two
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specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is
not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun ShortArray.contentEquals(other: ShortArray): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun IntArray.contentEquals(other: IntArray): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that
`NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun LongArray.contentEquals(other: LongArray): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun FloatArray.contentEquals(other: FloatArray): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n *
For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun DoubleArray.contentEquals(other: DoubleArray): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun BooleanArray.contentEquals(other: BooleanArray): Boolean {\n definedExternally\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n * \n * The elements are compared for equality
with the [equals][Any.equals] function.\n * For floating point numbers it means that `NaN` is equal to itself and `-0.0` is not equal to `0.0`.\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayEquals\")\npublic actual infix fun CharArray.contentEquals(other: CharArray): Boolean {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun <T> Array<out T>.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun ByteArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun ShortArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns
a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun IntArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun LongArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun FloatArray.contentHashCode(): Int {\n

definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun DoubleArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun BooleanArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayHashCode\")\npublic actual fun CharArray.contentHashCode(): Int {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun <T> Array<out T>.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun ByteArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun ShortArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun IntArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun LongArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun FloatArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun DoubleArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun BooleanArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.1\")\n@library(\"arrayToString\")\npublic actual fun CharArray.contentToString(): String {\n definedExternally\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun <T> Array<out T>.copyInto(destination: Array<T>, destinationOffset:

Int = 0, startIndex: Int = 0, endIndex: Int = size): Array<T> {\n arrayCopy(this, destination, destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun ByteArray.copyInto(destination: ByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ByteArray {\n arrayCopy(this.unsafeCast<Array<Byte>>(), destination.unsafeCast<Array<Byte>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun ShortArray.copyInto(destination: ShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ShortArray {\n arrayCopy(this.unsafeCast<Array<Short>>(), destination.unsafeCast<Array<Short>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun IntArray.copyInto(destination: IntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): IntArray {\n arrayCopy(this.unsafeCast<Array<Int>>(), destination.unsafeCast<Array<Int>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws

IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun LongArray.copyInto(destination: LongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): LongArray {\n arrayCopy(this.unsafeCast<Array<Long>>(), destination.unsafeCast<Array<Long>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun FloatArray.copyInto(destination: FloatArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): FloatArray {\n arrayCopy(this.unsafeCast<Array<Float>>(), destination.unsafeCast<Array<Float>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun DoubleArray.copyInto(destination: DoubleArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): DoubleArray {\n arrayCopy(this.unsafeCast<Array<Double>>(), destination.unsafeCast<Array<Double>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun BooleanArray.copyInto(destination: BooleanArray, destinationOffset:

Int = 0, startIndex: Int = 0, endIndex: Int = size): BooleanArray {\n arrayCopy(this.unsafeCast<Array<Boolean>>(), destination.unsafeCast<Array<Boolean>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual inline fun CharArray.copyInto(destination: CharArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): CharArray {\n arrayCopy(this.unsafeCast<Array<Char>>(), destination.unsafeCast<Array<Char>>(), destinationOffset, startIndex, endIndex)\n return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline fun <T> Array<out T>.copyOf(): Array<T> {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun ByteArray.copyOf(): ByteArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun ShortArray.copyOf(): ShortArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun IntArray.copyOf(): IntArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic actual fun LongArray.copyOf(): LongArray {\n return withType(\"LongArray\", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun FloatArray.copyOf(): FloatArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun DoubleArray.copyOf(): DoubleArray {\n return this.asDynamic().slice()\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic actual fun BooleanArray.copyOf(): BooleanArray {\n return withType(\"BooleanArray\", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\npublic actual fun CharArray.copyOf(): CharArray {\n return withType(\"CharArray\", this.asDynamic().slice())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic

actual fun ByteArray.copyOf(newSize: Int): ByteArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return fillFrom(this, ByteArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun ShortArray.copyOf(newSize: Int): ShortArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return fillFrom(this, ShortArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy
is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun IntArray.copyOf(newSize: Int): IntArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return fillFrom(this, IntArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled
with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun LongArray.copyOf(newSize: Int): LongArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return withType(\"LongArray\", arrayCopyResize(this, newSize, 0L))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun FloatArray.copyOf(newSize: Int): FloatArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return fillFrom(this,
FloatArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun DoubleArray.copyOf(newSize: Int): DoubleArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return fillFrom(this, DoubleArray(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `false` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy
array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `false` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n */\npublic actual fun BooleanArray.copyOf(newSize: Int): BooleanArray {\n   require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n   return withType(\"BooleanArray\", arrayCopyResize(this, newSize, false))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with null char (`\\u0000`) values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with null char (`\\u0000`) values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizedPrimitiveCopyOf\n

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*/\npublic actual fun CharArray.copyOf(newSize: Int): CharArray {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return withType(\"CharArray\", fillFrom(this, CharArray(newSize)))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with `null` values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with `null` values.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.resizingCopyOf\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out T>.copyOf(newSize: Int): Array<T?> {\n    require(newSize >= 0) { \"Invalid new array size: $newSize.\" }\n    return arrayCopyResize(this, newSize, null)\n}\n\n/**\n
 * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual fun <T> Array<out T>.copyOfRange(fromIndex: Int, toIndex: Int): Array<T> {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun ByteArray.copyOfRange(fromIndex: Int, toIndex: Int): ByteArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n
 * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun ShortArray.copyOfRange(fromIndex: Int, toIndex: Int): ShortArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun IntArray.copyOfRange(fromIndex: Int, toIndex: Int): IntArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of
 the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun LongArray.copyOfRange(fromIndex: Int, toIndex: Int): LongArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return withType(\"LongArray\", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun FloatArray.copyOfRange(fromIndex: Int, toIndex: Int): FloatArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified
 range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun DoubleArray.copyOfRange(fromIndex: Int, toIndex: Int): DoubleArray {\n    AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n    return this.asDynamic().slice(fromIndex, toIndex)\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun BooleanArray.copyOfRange(fromIndex: Int, toIndex: Int): BooleanArray {\n
```

AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   return withType(\"BooleanArray\", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range
 of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n */\npublic actual fun CharArray.copyOfRange(fromIndex: Int, toIndex: Int): CharArray {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   return withType(\"CharArray\", this.asDynamic().slice(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun <T> Array<T>.fill(element:
 T, fromIndex: Int = 0, toIndex: Int = size): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun ByteArray.fill(element: Byte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified
 [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun ShortArray.fill(element: Short, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than
 zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun IntArray.fill(element: Int, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun LongArray.fill(element:
 Long, fromIndex: Int = 0, toIndex: Int = size): Unit {\n   AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n   this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the

specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun FloatArray.fill(element: Float, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun DoubleArray.fill(element: Double, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun BooleanArray.fill(element: Boolean, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun CharArray.fill(element: Char, fromIndex: Int = 0, toIndex: Int = size): Unit {\n AbstractList.checkRangeIndexes(fromIndex, toIndex, size)\n this.asDynamic().fill(element, fromIndex, toIndex);\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline operator fun <T> Array<out T>.plus(element: T): Array<T> {\n return this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ByteArray.plus(element: Byte): ByteArray {\n return plus(byteArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ShortArray.plus(element: Short): ShortArray {\n return plus(shortArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun IntArray.plus(element: Int): IntArray {\n return plus(intArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun LongArray.plus(element: Long): LongArray {\n return plus(longArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline

operator fun FloatArray.plus(element: Float): FloatArray {\n   return plus(floatArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun DoubleArray.plus(element: Double): DoubleArray {\n   return plus(doubleArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun BooleanArray.plus(element: Boolean): BooleanArray {\n   return plus(booleanArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun CharArray.plus(element: Char): CharArray {\n   return plus(charArrayOf(element))\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\")\npublic actual operator fun <T> Array<out T>.plus(elements: Collection<T>): Array<T> {\n   return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun ByteArray.plus(elements: Collection<Byte>): ByteArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun ShortArray.plus(elements: Collection<Short>): ShortArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun IntArray.plus(elements: Collection<Int>): IntArray {\n return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun LongArray.plus(elements: Collection<Long>): LongArray {\n   return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun FloatArray.plus(elements: Collection<Float>): FloatArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun DoubleArray.plus(elements: Collection<Double>): DoubleArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun BooleanArray.plus(elements: Collection<Boolean>): BooleanArray {\n   return arrayPlusCollection(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\npublic actual operator fun CharArray.plus(elements: Collection<Char>): CharArray {\n   return fillFromCollection(this.copyOf(size + elements.size), this.size, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline operator fun <T> Array<out T>.plus(elements: Array<out T>): Array<T> {\n   return this.asDynamic().concat(elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ByteArray.plus(elements: ByteArray): ByteArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun ShortArray.plus(elements: ShortArray): ShortArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun IntArray.plus(elements: IntArray): IntArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n

*/\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun LongArray.plus(elements: LongArray): LongArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array
 and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun FloatArray.plus(elements: FloatArray): FloatArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun DoubleArray.plus(elements: DoubleArray): DoubleArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline operator fun BooleanArray.plus(elements: BooleanArray): BooleanArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@Suppress(\"NOTHING_TO_INLINE\")\npublic
 actual inline operator fun CharArray.plus(elements: CharArray): CharArray {\n   return primitiveArrayConcat(this, elements)\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@Suppress(\"ACTUAL_WITHOUT_EXPECT\", \"NOTHING_TO_INLINE\")\npublic actual inline fun <T> Array<out T>.plusElement(element: T): Array<T> {\n   return this.asDynamic().concat(arrayOf(element))\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun IntArray.sort(): Unit {\n   definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\npublic actual fun LongArray.sort(): Unit {\n   if (size > 1) sort { a: Long, b: Long -> a.compareTo(b) }\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic
 actual fun ByteArray.sort(): Unit {\n   definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun ShortArray.sort(): Unit {\n   definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun DoubleArray.sort(): Unit {\n   definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun FloatArray.sort(): Unit {\n   definedExternally\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@library(\"primitiveArraySort\")\npublic actual fun CharArray.sort(): Unit {\n   definedExternally\n}\n\n/**\n * Sorts the array in-place according to the natural order of its elements.\n
 * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n * \n * @sample samples.collections.Arrays.Sorting.sortArrayOfComparable\n */\npublic actual fun <T : Comparable<T>> Array<out T>.sort(): Unit {\n   if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Array<out T>.sort(comparison: (a: T, b: T) -> Int): Unit {\n   if (size > 1) sortArrayWith(this, comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.sort(noinline comparison: (a: Byte, b: Byte) -> Int): Unit {\n   asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified
 by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.sort(noinline comparison: (a: Short, b: Short) -> Int): Unit {\n   asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.sort(noinline comparison: (a: Int, b: Int) -> Int): Unit {\n   asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.sort(noinline comparison:

(a: Long, b: Long) -> Int): Unit {\n   asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun FloatArray.sort(noinline comparison: (a: Float, b: Float) -> Int): Unit {\n asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun DoubleArray.sort(noinline comparison: (a: Double, b: Double) -> Int): Unit {\n   asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparison] function.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharArray.sort(noinline comparison: (a: Char, b: Char) -> Int): Unit {\n   asDynamic().sort(comparison)\n}\n\n/**\n * Sorts the array in-place according to the order specified by the given [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic actual fun <T> Array<out T>.sortWith(comparator: Comparator<in T>): Unit {\n   if (size > 1) sortArrayWith(this, comparator)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun ByteArray.toTypedArray(): Array<Byte> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun ShortArray.toTypedArray(): Array<Short> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun IntArray.toTypedArray(): Array<Int> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun LongArray.toTypedArray(): Array<Long> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun FloatArray.toTypedArray(): Array<Float> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun DoubleArray.toTypedArray(): Array<Double> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun BooleanArray.toTypedArray(): Array<Boolean> {\n   return js(\"[]\").slice.call(this)\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\npublic actual fun CharArray.toTypedArray(): Array<Char> {\n   return Array(size) { index -> this[index] }\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n@file:kotlin.jvm.JvmName(\"ComparisonsKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage kotlin.comparisons\n\n/**\n * Compares two values using the specified functions [selectors] to calculate the result of the comparison.\n * The functions are called sequentially, receive the given values [a] and [b] and return [Comparable]\n * objects. As soon as the [Comparable] instances returned by a function for [a] and [b] values do not\n * compare as equal, the result of that comparison is returned.\n *\n * @sample samples.comparisons.Comparisons.compareValuesByWithSelectors\n */\npublic fun <T> compareValuesBy(a: T, b: T, vararg selectors: (T) -> Comparable<*>?): Int {\n   require(selectors.size > 0)\n   return compareValuesByImpl(a, b, selectors)\n}\n\nprivate fun <T> compareValuesByImpl(a: T, b: T, selectors: Array<out (T) -> Comparable<*>?>): Int {\n   for (fn in selectors) {\n   val v1 = fn(a)\n   val v2 = fn(b)\n   val diff = compareValues(v1, v2)\n   if (diff != 0) return diff\n   }\n   return 0\n}\n\n/**\n * Compares two values using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to the given values [a] and [b] and return\n * [Comparable] objects.\n * The result of comparison of these [Comparable] instances is returned.\n *\n * @sample samples.comparisons.Comparisons.compareValuesByWithSingleSelector\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareValuesBy(a: T, b: T, selector: (T) -> Comparable<*>?): Int {\n   return compareValues(selector(a), selector(b))\n}\n\n/**\n * Compares two values using the specified [selector] function to calculate the result of the comparison.\n * The function is applied to the given values [a] and [b] and return objects

of type K which are then being\n * compared with the given [comparator].\n *\n * @sample samples.comparisons.Comparisons.compareValuesByWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareValuesBy(a: T, b: T, comparator: Comparator<in K>, selector: (T) -> K): Int {\n return comparator.compare(selector(a), selector(b))\n}\n\n//// Not so useful without type inference for receiver of expression\n//// compareValuesWith(v1, v2, compareBy { it.prop1 } thenByDescending { it.prop2 })\n///**\n// * Compares two values using the specified [comparator].\n// */\n//@Suppress(\"NOTHING_TO_INLINE\")\n//public inline fun <T> compareValuesWith(a: T, b: T, comparator: Comparator<T>): Int = comparator.compare(a, b)\n//\n\n\n/**\n * Compares two nullable [Comparable] values. Null is considered less than any value.\n *\n * @sample samples.comparisons.Comparisons.compareValues\n */\npublic fun <T : Comparable<*>> compareValues(a: T?, b: T?): Int {\n if (a === b) return 0\n if (a == null) return -1\n if (b == null) return 1\n\n @Suppress(\"UNCHECKED_CAST\")\n return (a as Comparable<Any>).compareTo(b)\n}\n\n/**\n * Creates a comparator using the sequence of functions to calculate a result of comparison.\n * The functions are called sequentially, receive the given values `a` and `b` and return [Comparable]\n * objects. As soon as the [Comparable] instances returned by a function for `a` and `b` values do not\n * compare as equal, the result of that comparison is returned from the [Comparator].\n *\n * @sample samples.comparisons.Comparisons.compareByWithSelectors\n */\npublic fun <T> compareBy(vararg selectors: (T) -> Comparable<*>?): Comparator<T> {\n require(selectors.size > 0)\n return Comparator { a, b -> compareValuesByImpl(a, b, selectors) }\n}\n\n\n/**\n * Creates a comparator using the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample samples.comparisons.Comparisons.compareByWithSingleSelector\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n Comparator { a, b -> compareValuesBy(a, b, selector) }\n\n/**\n * Creates a comparator using the [selector] function to transform values being compared and then applying\n * the specified [comparator] to compare transformed values.\n *\n * @sample samples.comparisons.Comparisons.compareByWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n Comparator { a, b -> compareValuesBy(a, b, comparator, selector) }\n\n/**\n * Creates a descending comparator using the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample samples.comparisons.Comparisons.compareByDescendingWithSingleSelector\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> compareByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n Comparator { a, b -> compareValuesBy(b, a, selector) }\n\n/**\n * Creates a descending comparator using the [selector] function to transform values being compared and then applying\n * the specified [comparator] to compare transformed values.\n *\n * Note that an order of [comparator] is reversed by this wrapper.\n *\n * @sample samples.comparisons.Comparisons.compareByDescendingWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> compareByDescending(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n Comparator { a, b -> compareValuesBy(b, a, comparator, selector) }\n\n/**\n * Creates a comparator comparing values after the primary comparator defined them equal. It uses\n * the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample samples.comparisons.Comparisons.thenBy\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Comparator<T>.thenBy(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n Comparator { a, b ->\n val previousCompare = this@thenBy.compare(a, b)\n if (previousCompare != 0) previousCompare else compareValuesBy(a, b, selector)\n }\n\n/**\n * Creates a comparator comparing values after the primary comparator defined them equal. It uses\n * the [selector] function to transform values and then compares them with the given [comparator].\n *\n * @sample samples.comparisons.Comparisons.thenByWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> Comparator<T>.thenBy(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n Comparator { a, b ->\n val previousCompare =

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this@thenBy.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(a, b, comparator, selector)\n    }\n\n/**\n * Creates a descending comparator using the primary comparator and\n * the function to transform value to a [Comparable] instance for comparison.\n *\n * @sample samples.comparisons.Comparisons.thenByDescending\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Comparator<T>.thenByDescending(crossinline selector: (T) -> Comparable<*>?): Comparator<T> =\n Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(b, a, selector)\n    }\n\n/**\n * Creates a descending comparator comparing values after\n the primary comparator defined them equal. It uses\n * the [selector] function to transform values and then compares them with the given [comparator].\n *\n * @sample samples.comparisons.Comparisons.thenByDescendingWithComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, K> Comparator<T>.thenByDescending(comparator: Comparator<in K>, crossinline selector: (T) -> K): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@thenByDescending.compare(a, b)\n        if (previousCompare != 0) previousCompare else compareValuesBy(b, a, comparator, selector)\n    }\n\n\n/**\n * Creates a comparator using the primary comparator and function to calculate a result of comparison.\n *\n * @sample samples.comparisons.Comparisons.thenComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Comparator<T>.thenComparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> =\n Comparator { a, b ->\n        val previousCompare = this@thenComparator.compare(a,\n b)\n        if (previousCompare != 0) previousCompare else comparison(a, b)\n    }\n\n/**\n * Combines this comparator and the given [comparator] such that the latter is applied only\n * when the former considered values equal.\n *\n * @sample samples.comparisons.Comparisons.then\n */\npublic infix fun <T> Comparator<T>.then(comparator: Comparator<in T>): Comparator<T> =\n    Comparator { a, b ->\n        val previousCompare = this@then.compare(a, b)\n        if (previousCompare != 0) previousCompare else comparator.compare(a, b)\n    }\n\n/**\n * Combines this comparator and the given [comparator] such that the latter is applied only\n * when the former considered values equal.\n *\n * @sample samples.comparisons.Comparisons.thenDescending\n */\npublic infix fun <T> Comparator<T>.thenDescending(comparator: Comparator<in T>): Comparator<T> =\n    Comparator<T> { a, b ->\n        val previousCompare = this@thenDescending.compare(a, b)\n        if (previousCompare != 0) previousCompare\n else comparator.compare(b, a)\n    }\n\n// Not so useful without type inference for receiver of expression\n/**\n * Extends the given [comparator] of non-nullable values to a comparator of nullable values\n * considering `null` value less than any other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Any> nullsFirst(comparator: Comparator<in T>): Comparator<T?> =\n    Comparator { a, b ->\n        when {\n            a === b -> 0\n            a == null -> -1\n            b == null -> 1\n            else -> comparator.compare(a, b)\n        }\n    }\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value less than any other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsFirst(): Comparator<T?> = nullsFirst(naturalOrder())\n\n/**\n * Extends the given [comparator] of non-nullable\n values to a comparator of nullable values\n * considering `null` value greater than any other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Any> nullsLast(comparator: Comparator<in T>): Comparator<T?> =\n    Comparator { a, b ->\n        when {\n            a === b -> 0\n            a == null -> 1\n            b == null -> -1\n            else -> comparator.compare(a, b)\n        }\n    }\n\n/**\n * Provides a comparator of nullable [Comparable] values\n * considering `null` value greater than any other value.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastComparator\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T : Comparable<T>> nullsLast(): Comparator<T?> = nullsLast(naturalOrder())\n\n/**\n * Returns a comparator that compares [Comparable] objects in natural order.\n *\n * @sample samples.comparisons.Comparisons.naturalOrderComparator\n */\npublic fun <T : Comparable<T>>
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naturalOrder(): Comparator<T>
 = @Suppress(\"UNCHECKED_CAST\") (NaturalOrderComparator as Comparator<T>)\n\n/**\n * Returns a comparator that compares [Comparable] objects in reversed natural order.\n *\n * @sample samples.comparisons.Comparisons.nullsFirstLastWithComparator\n */\npublic fun <T : Comparable<T>> reverseOrder(): Comparator<T> = @Suppress(\"UNCHECKED_CAST\") (ReverseOrderComparator as Comparator<T>)\n\n/**\n *  Returns a comparator that imposes the reverse ordering of this comparator.\n *\n * @sample samples.comparisons.Comparisons.reversed\n */\npublic fun <T> Comparator<T>.reversed(): Comparator<T> = when (this) {\n    is ReversedComparator -> this.comparator\n    NaturalOrderComparator -> @Suppress(\"UNCHECKED_CAST\") (ReverseOrderComparator as Comparator<T>)\n    ReverseOrderComparator -> @Suppress(\"UNCHECKED_CAST\") (NaturalOrderComparator as Comparator<T>)\n    else -> ReversedComparator(this)\n}\n\n\nprivate class ReversedComparator<T>(public val comparator: Comparator<T>) : Comparator<T>
 {\n    override fun compare(a: T, b: T): Int = comparator.compare(b, a)\n    @Suppress(\"VIRTUAL_MEMBER_HIDDEN\")\n    fun reversed(): Comparator<T> = comparator\n}\n\nprivate object NaturalOrderComparator : Comparator<Comparable<Any>> {\n    override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = a.compareTo(b)\n    @Suppress(\"VIRTUAL_MEMBER_HIDDEN\")\n    fun reversed(): Comparator<Comparable<Any>> = ReverseOrderComparator\n}\n\nprivate object ReverseOrderComparator : Comparator<Comparable<Any>> {\n    override fun compare(a: Comparable<Any>, b: Comparable<Any>): Int = b.compareTo(a)\n    @Suppress(\"VIRTUAL_MEMBER_HIDDEN\")\n    fun reversed(): Comparator<Comparable<Any>> = NaturalOrderComparator\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\npublic actual interface Comparator<T>
 {\n    @JsName(\"compare\")\n    actual fun compare(a: T, b: T): Int\n}\n\npublic actual inline fun <T> Comparator(crossinline comparison: (a: T, b: T) -> Int): Comparator<T> = object : Comparator<T> {\n    override fun compare(a: T, b: T): Int = comparison(a, b)\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StandardKt\")\npackage kotlin\n\nimport kotlin.contracts.*\n\n/**\n * An exception is thrown to indicate that a method body remains to be implemented.\n */\npublic class NotImplementedError(message: String = \"An operation is not implemented.\") : Error(message)\n\n/**\n * Always throws [NotImplementedError] stating that operation is not implemented.\n */\n\n@kotlin.internal.InlineOnly\npublic inline fun TODO(): Nothing = throw NotImplementedError()\n\n/**\n
 * Always throws [NotImplementedError] stating that operation is not implemented.\n *\n * @param reason a string explaining why the implementation is missing.\n */\n@kotlin.internal.InlineOnly\npublic inline fun TODO(reason: String): Nothing = throw NotImplementedError(\"An operation is not implemented: $reason\")\n\n\n\n/**\n * Calls the specified function [block] and returns its result.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <R> run(block: () -> R): R {\n    contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    return block()\n}\n\n/**\n * Calls the specified function [block] with `this` value as its receiver and returns its result.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#run).\n
 */\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> T.run(block: T.() -> R): R {\n    contract {\n    callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    return block()\n}\n\n/**\n * Calls the specified function [block] with the given [receiver] as its receiver and returns its result.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#with).\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> with(receiver: T, block: T.() -> R): R {\n    contract {\n
  callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n    }\n    return receiver.block()\n}\n\n/**\n * Calls the
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specified function [block] with `this` value as its receiver and returns `this` value.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#apply).\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> T.apply(block: T.() -> Unit): T {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n block()\n return this\n}\n\n/**\n * Calls the specified function [block] with `this` value as its argument and returns `this` value.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#also).\n */\n@kotlin.internal.InlineOnly\n@SinceKotlin(\"1.1\")\npublic inline fun <T> T.also(block: (T) -> Unit): T {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n block(this)\n return this\n}\n\n/**\n * Calls the specified function [block] with `this` value as its argument and returns its result.\n *\n * For detailed usage information see the documentation for [scope functions](https://kotlinlang.org/docs/reference/scope-functions.html#let).\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T, R> T.let(block: (T) -> R): R {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return block(this)\n}\n\n/**\n * Returns `this` value if it satisfies the given [predicate] or `null`, if it doesn't.\n */\n@kotlin.internal.InlineOnly\n@SinceKotlin(\"1.1\")\npublic inline fun <T> T.takeIf(predicate: (T) -> Boolean): T? {\n contract {\n callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n }\n return if (predicate(this)) this else null\n}\n\n/**\n * Returns `this` value if it _does not_ satisfy the given [predicate] or `null`, if it does.\n */\n@kotlin.internal.InlineOnly\n@SinceKotlin(\"1.1\")\npublic inline fun <T> T.takeUnless(predicate: (T) -> Boolean): T? {\n contract {\n callsInPlace(predicate, InvocationKind.EXACTLY_ONCE)\n }\n return if (!predicate(this)) this else null\n}\n\n/**\n * Executes the given function [action] specified number of [times].\n *\n * A zero-based index of current iteration is passed as a parameter to [action].\n *\n * @sample samples.misc.ControlFlow.repeat\n */\n@kotlin.internal.InlineOnly\npublic inline fun repeat(times: Int, action: (Int) -> Unit) {\n contract { callsInPlace(action) }\n\n for (index in 0 until times) {\n action(index)\n }\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.comparisons\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\n\n/**\n * Returns the greater of two values.\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T): T {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Byte, b: Byte): Byte {\n return Math.max(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Short, b: Short): Short {\n return Math.max(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Int, b: Int): Int {\n return Math.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@Suppress(\"DEPRECATION_ERROR\", \"NOTHING_TO_INLINE\")\npublic actual inline fun maxOf(a: Long, b: Long): Long {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Float, b: Float): Float {\n return Math.max(a, b)\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual

inline fun maxOf(a: Double, b: Double): Double {\n   return Math.max(a, b)\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte {\n   return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Short, b: Short, c: Short): Short {\n   return Math.max(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Int, b: Int, c: Int): Int {\n   return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun maxOf(a: Long, b: Long, c: Long): Long {\n   return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Float, b: Float, c: Float): Float {\n   return Math.max(a, b, c)\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun maxOf(a: Double, b: Double, c: Double): Double {\n   return Math.max(a, b, c)\n}\n\n/**\n * Returns the smaller of two values.\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T): T {\n   return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Byte, b: Byte): Byte {\n   return Math.min(a.toInt(), b.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Short, b: Short): Short {\n   return Math.min(a.toInt(), b.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Int, b: Int): Int {\n   return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@Suppress(\"DEPRECATION_ERROR\",\n \"NOTHING_TO_INLINE\")\npublic actual inline fun minOf(a: Long, b: Long): Long {\n   return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Float, b: Float): Float {\n   return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Double, b: Double): Double {\n   return Math.min(a, b)\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Byte, b: Byte, c: Byte): Byte {\n return Math.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Byte>()\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Short, b: Short, c: Short): Short {\n   return Math.min(a.toInt(), b.toInt(), c.toInt()).unsafeCast<Short>()\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual

inline fun minOf(a: Int, b: Int, c: Int): Int {\n   return Math.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic actual inline fun minOf(a: Long, b: Long, c: Long): Long {\n   return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Float, b: Float, c: Float):
Float {\n   return Math.min(a, b, c)\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\n@Suppress(\"DEPRECATION_ERROR\")\npublic actual inline fun minOf(a: Double, b: Double, c: Double): Double {\n   return Math.min(a, b, c)\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component1():
T {\n   return get(0)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component2(): T {\n   return get(1)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component3(): T {\n   return get(2)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component4(): T {\n   return get(3)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> List<T>.component5(): T {\n   return get(4)\n}\n\n/**\n * Returns `true` if [element] is found in the collection.\n */\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.contains(element: T): Boolean {\n   if (this is Collection)\n   return contains(element)\n   return indexOf(element) >= 0\n}\n\n/**\n * Returns an
element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this collection.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic fun <T> Iterable<T>.elementAt(index: Int): T {\n   if (this is List)\n   return get(index)\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"Collection doesn't contain element at index $index.\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAt(index: Int): T {\n   return get(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this collection.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\npublic fun
<T> Iterable<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n   if (this is List)\n   return this.getOrElse(index, defaultValue)\n   if (index < 0)\n   return defaultValue(index)\n   val iterator = iterator()\n   var count = 0\n   while (iterator.hasNext()) {\n   val element = iterator.next()\n   if (index == count++)\n   return element\n   }\n   return defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this collection.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*/\npublic fun <T> Iterable<T>.elementAtOrNull(index: Int): T? {\n   if (this is List)\n   return this.getOrNull(index)\n   if (index < 0)\n   return null\n   val iterator = iterator()\n   var count = 0\n   while (iterator.hasNext()) {\n   val element = iterator.next()\n   if (index == count++)\n   return element\n   }\n

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 return null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.elementAtOrNull(index: Int): T? {\n    return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.find(predicate: (T) -> Boolean): T? {\n    return firstOrNull(predicate)\n}\n\n/**\n
 * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.findLast(predicate: (T) -> Boolean): T? {\n    return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the collection is empty.\n */\npublic fun <T> Iterable<T>.first(): T {\n    when (this) {\n        is List -> return this.first()\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                throw NoSuchElementException(\"Collection is empty.\")\n            return iterator.next()\n        }\n    }\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException]
 if the list is empty.\n */\npublic fun <T> List<T>.first(): T {\n    if (isEmpty())\n        throw NoSuchElementException(\"List is empty.\")\n    return this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Iterable<T>.first(predicate: (T) -> Boolean): T {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException(\"Collection contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element, or `null` if the collection is empty.\n */\npublic fun <T> Iterable<T>.firstOrNull(): T? {\n    when (this) {\n        is List -> {\n            if (isEmpty())\n                return null\n            else\n                return this[0]\n        }\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                return null\n            return iterator.next()\n
        }\n    }\n}\n\n/**\n * Returns the first element, or `null` if the list is empty.\n */\npublic fun <T> List<T>.firstOrNull(): T? {\n    return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\npublic inline fun <T> Iterable<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this list.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> List<T>.getOrElse(index: Int, defaultValue: (Int) -> T): T {\n    return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this list.\n */\npublic fun <T> List<T>.getOrNull(index: Int): T? {\n    return
 if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the collection does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.indexOf(element: T): Int {\n    if (this is List) return this.indexOf(element)\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (element == item)\n            return index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns first index of [element], or -1 if the list does not contain element.\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.indexOf(element: T): Int {\n    return indexOf(element)\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the collection does not contain such element.\n */\npublic inline fun <T> Iterable<T>.indexOfFirst(predicate: (T) -> Boolean):
 Int {\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (predicate(item))\n            return index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T> List<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    var index = 0\n    for (item in this) {\n        if (predicate(item))\n            return index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns index of the last
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element matching the given [predicate], or -1 if the collection does not contain such element.\n */\npublic inline fun <T> Iterable<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    var lastIndex = -1\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (predicate(item))\n            lastIndex = index\n        index++\n    }\n    return lastIndex\n}\n\n/**\n * Returns index
 of the last element matching the given [predicate], or -1 if the list does not contain such element.\n */\npublic inline fun <T> List<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    val iterator = this.listIterator(size)\n    while (iterator.hasPrevious()) {\n        if (predicate(iterator.previous())) {\n            return iterator.nextIndex()\n        }\n    }\n    return -1\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the collection is empty.\n */\npublic fun <T> Iterable<T>.last(): T {\n    when (this) {\n        is List -> return this.last()\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                throw NoSuchElementException(\"Collection is empty.\")\n            var last = iterator.next()\n            while (iterator.hasNext())\n                last = iterator.next()\n            return last\n        }\n    }\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException]
 if the list is empty.\n */\npublic fun <T> List<T>.last(): T {\n    if (isEmpty())\n        throw NoSuchElementException(\"List is empty.\")\n    return this[lastIndex]\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> Iterable<T>.last(predicate: (T) -> Boolean): T {\n    var last: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            last = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Collection contains no element matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return last as T\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\npublic inline fun <T> List<T>.last(predicate: (T) -> Boolean): T {\n    val iterator = this.listIterator(size)\n    while (iterator.hasPrevious()) {\n        val element = iterator.previous()\n        if (predicate(element)) return element\n    }\n    throw NoSuchElementException(\"List contains no element matching the predicate.\")\n}\n\n/**\n * Returns last index of [element], or -1 if the collection does not contain element.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Iterable<T>.lastIndexOf(element: T): Int {\n    if (this is List) return this.lastIndexOf(element)\n    var lastIndex = -1\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (element == item)\n            lastIndex = index\n        index++\n    }\n    return lastIndex\n}\n\n/**\n * Returns last index of [element], or -1 if the list does not contain element.\n */\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning, extension takes precedence in some cases\npublic fun <@kotlin.internal.OnlyInputTypes T> List<T>.lastIndexOf(element: T): Int {\n    return lastIndexOf(element)\n}\n\n/**\n
 * Returns the last element, or `null` if the collection is empty.\n */\npublic fun <T> Iterable<T>.lastOrNull(): T? {\n    when (this) {\n        is List -> return if (isEmpty()) null else this[size - 1]\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                return null\n            var last = iterator.next()\n            while (iterator.hasNext())\n                last = iterator.next()\n            return last\n        }\n    }\n}\n\n/**\n * Returns the last element, or `null` if the list is empty.\n */\npublic fun <T> List<T>.lastOrNull(): T? {\n    return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun <T> Iterable<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n    var last: T? = null\n    for (element in this) {\n        if (predicate(element)) {\n            last = element\n        }\n    }\n
  return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\npublic inline fun <T> List<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n    val iterator = this.listIterator(size)\n    while (iterator.hasPrevious()) {\n        val element = iterator.previous()\n        if (predicate(element)) return element\n    }\n    return null\n}\n\n/**\n * Returns a random element from this collection.\n * \n * @throws NoSuchElementException if this collection is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.random(): T {\n    return random(Random)\n}\n\n/**\n * Returns a random element from this collection using the specified source of randomness.\n * \n * @throws NoSuchElementException if this collection is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> Collection<T>.random(random: Random): T {\n    if (isEmpty())\n
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throw NoSuchElementException(\"Collection is empty.\")\n
    return elementAt(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the collection is empty or has more than one element.\n */\npublic fun <T> Iterable<T>.single(): T {\n    when (this) {\n        is List -> return this.single()\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                throw NoSuchElementException(\"Collection is empty.\")\n            val single = iterator.next()\n            if (iterator.hasNext())\n                throw IllegalArgumentException(\"Collection has more than one element.\")\n            return single\n        }\n    }\n}\n\n/**\n * Returns the single element, or throws an exception if the list is empty or has more than one element.\n */\npublic fun <T> List<T>.single(): T {\n    return when (size) {\n        0 -> throw NoSuchElementException(\"List is empty.\")\n        1 -> this[0]\n        else -> throw IllegalArgumentException(\"List has more than one element.\")\n    }\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\npublic inline fun <T> Iterable<T>.single(predicate: (T) -> Boolean): T {\n    var single: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) throw IllegalArgumentException(\"Collection contains more than one matching element.\")\n            single = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Collection contains no element matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return single as T\n}\n\n/**\n * Returns single element, or `null` if the collection is empty or has more than one element.\n */\npublic fun <T> Iterable<T>.singleOrNull(): T? {\n    when (this) {\n        is List -> return if (size == 1) this[0] else null\n        else -> {\n            val iterator = iterator()\n            if (!iterator.hasNext())\n                return null\n            val single = iterator.next()\n            if (iterator.hasNext())\n                return null\n            return single\n        }\n    }\n}\n\n/**\n * Returns single element, or `null` if the list is empty or has more than one element.\n */\npublic fun <T> List<T>.singleOrNull(): T? {\n    return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\npublic inline fun <T> Iterable<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n    var single: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            if (found) return null\n            single = element\n            found = true\n        }\n    }\n    if (!found) return null\n    return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n
 * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Iterable<T>.drop(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return toList()\n    val list: ArrayList<T>\n    if (this is Collection<*>) {\n        val resultSize = size - n\n        if (resultSize <= 0)\n            return emptyList()\n        if (resultSize == 1)\n            return listOf(last())\n        list = ArrayList<T>(resultSize)\n        if (this is List<T>) {\n            if (this is RandomAccess) {\n                for (index in n until size)\n                    list.add(this[index])\n            } else {\n                for (item in listIterator(n))\n                    list.add(item)\n            }\n            return list\n        }\n    }\n    else {\n        list = ArrayList<T>()\n    }\n    var count = 0\n    for (item in this) {\n        if (count
 >= n) list.add(item) else ++count\n    }\n    return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> List<T>.dropLast(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T> List<T>.dropLastWhile(predicate: (T) -> Boolean): List<T> {\n    if (!isEmpty()) {\n        val iterator = listIterator(size)\n        while (iterator.hasPrevious()) {\n            if (!predicate(iterator.previous())) {\n                return take(iterator.nextIndex() + 1)\n            }\n        }\n    }\n    return
 emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic inline fun <T>
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Iterable<T>.dropWhile(predicate: (T) -> Boolean): List<T> {\n    var yielding = false\n    val list = ArrayList<T>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\npublic inline fun <T> Iterable<T>.filter(predicate: (T) -> Boolean): List<T> {\n    return filterTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <T> Iterable<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): List<T> {\n    return filterIndexedTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n    forEachIndexed { index, element ->\n        if (predicate(index, element)) destination.add(element)\n    }\n    return destination\n}\n\n/**\n * Returns a list containing all elements that are instances of specified type parameter R.\n */\npublic inline fun <reified R> Iterable<*>.filterIsInstance(): List<@kotlin.internal.NoInfer R> {\n    return filterIsInstanceTo(ArrayList<R>())\n}\n\n/**\n * Appends all elements that are instances of specified type parameter R to the given [destination].\n */\npublic inline fun <reified R, C : MutableCollection<in R>> Iterable<*>.filterIsInstanceTo(destination: C): C {\n    for (element in this) if (element is R) destination.add(element)\n    return destination\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n */\npublic inline fun <T> Iterable<T>.filterNot(predicate: (T) -> Boolean): List<T> {\n    return filterNotTo(ArrayList<T>(), predicate)\n}\n\n/**\n * Returns a list containing all elements that are not `null`.\n */\npublic fun <T : Any> Iterable<T?>.filterNotNull(): List<T> {\n    return filterNotNullTo(ArrayList<T>())\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n */\npublic fun <C : MutableCollection<in T>, T : Any> Iterable<T?>.filterNotNullTo(destination: C): C {\n    for (element in this) if (element != null) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements
 not matching the given [predicate] to the given [destination].\n */\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n    for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n */\npublic inline fun <T, C : MutableCollection<in T>> Iterable<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\npublic fun <T> List<T>.slice(indices: IntRange): List<T> {\n    if (indices.isEmpty()) return listOf()\n    return this.subList(indices.start, indices.endInclusive + 1).toList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\npublic fun <T> List<T>.slice(indices:
 Iterable<Int>): List<T> {\n    val size = indices.collectionSizeOrDefault(10)\n    if (size == 0) return emptyList()\n    val list = ArrayList<T>(size)\n    for (index in indices) {\n        list.add(get(index))\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Iterable<T>.take(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (this is Collection<T>) {\n        if (n >= size) return toList()\n        if (n == 1) return listOf(first())\n    }\n    var count = 0\n    val list = ArrayList<T>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list.optimizeReadOnlyList()\n}\n\n/**\n * Returns a list containing
 last [n] elements.\n * \n * @throws
 IllegalArgumentException if [n] is negative.\n * \n * @sample
 samples.collections.Collections.Transformations.take\n */\npublic fun <T> List<T>.takeLast(n: Int): List<T> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(last())\n    val list = ArrayList<T>(n)\n    if (this is
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RandomAccess) {\n for (index in size - n until size)\n list.add(this[index])\n } else {\n for (item in listIterator(size - n))\n list.add(item)\n }\n return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> List<T>.takeLastWhile(predicate: (T) -> Boolean): List<T> {\n if (isEmpty())\n return emptyList()\n val iterator = listIterator(size)\n while (iterator.hasPrevious())
{\n if (!predicate(iterator.previous())) {\n iterator.next()\n val expectedSize = size - iterator.nextIndex()\n if (expectedSize == 0) return emptyList()\n return ArrayList<T>(expectedSize).apply {\n while (iterator.hasNext())\n add(iterator.next())\n }\n }\n }\n return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic inline fun <T> Iterable<T>.takeWhile(predicate: (T) -> Boolean): List<T> {\n val list = ArrayList<T>()\n for (item in this) {\n if (!predicate(item))\n break\n list.add(item)\n }\n return list\n}\n\n/**\n * Reverses elements in the list in-place.\n */\npublic expect fun <T> MutableList<T>.reverse(): Unit\n\n/**\n * Returns a list with elements in reversed order.\n */\npublic fun <T> Iterable<T>.reversed():
List<T> {\n if (this is Collection && size <= 1) return toList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Sorts elements in the list in-place according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> MutableList<T>.sortBy(crossinline selector: (T) -> R?): Unit {\n if (size > 1) sortWith(compareBy(selector))\n}\n\n/**\n * Sorts elements in the list in-place descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> MutableList<T>.sortByDescending(crossinline selector: (T) -> R?): Unit {\n if (size > 1) sortWith(compareByDescending(selector))\n}\n\n/**\n
* Sorts elements in the list in-place descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> MutableList<T>.sortDescending(): Unit {\n sortWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Iterable<T>.sorted(): List<T> {\n if (this is Collection) {\n if (size <= 1) return this.toList()\n @Suppress(\"UNCHECKED_CAST\")\n return (toTypedArray<Comparable<T>>() as Array<T>).apply { sort() }.asList()\n }\n return toMutableList().apply { sort() }\n}\n\n/**\n * Returns a list of all elements sorted according to natural sort order of the value returned by specified [selector]
function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Iterable<T>.sortedBy(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic inline fun <T, R : Comparable<R>> Iterable<T>.sortedByDescending(crossinline selector: (T) -> R?): List<T> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T : Comparable<T>> Iterable<T>.sortedDescending():
List<T> {\n return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a list of all elements sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic fun <T> Iterable<T>.sortedWith(comparator: Comparator<in T>): List<T> {\n if (this is Collection) {\n if (size <= 1) return this.toList()\n @Suppress(\"UNCHECKED_CAST\")\n return (toTypedArray<Any?>() as Array<T>).apply { sortWith(comparator) }.asList()\n }\n return toMutableList().apply { sortWith(comparator) }\n}\n\n/**\n * Returns an array of Boolean containing all of the elements of this collection.\n */\npublic fun Collection<Boolean>.toBooleanArray(): BooleanArray {\n val result

= BooleanArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Byte containing all of the elements
of this collection.\n */\npublic fun Collection<Byte>.toByteArray(): ByteArray {\n val result = ByteArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Char containing all of the elements of this collection.\n */\npublic fun Collection<Char>.toCharArray(): CharArray {\n val result = CharArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Double containing all of the elements of this collection.\n */\npublic fun Collection<Double>.toDoubleArray(): DoubleArray {\n val result = DoubleArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Float containing all of the elements of this collection.\n */\npublic fun Collection<Float>.toFloatArray(): FloatArray {\n val result = FloatArray(size)\n var
index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Int containing all of the elements of this collection.\n */\npublic fun Collection<Int>.toIntArray(): IntArray {\n val result = IntArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Long containing all of the elements of this collection.\n */\npublic fun Collection<Long>.toLongArray(): LongArray {\n val result = LongArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns an array of Short containing all of the elements of this collection.\n */\npublic fun Collection<Short>.toShortArray(): ShortArray {\n val result = ShortArray(size)\n var index = 0\n for (element in this)\n result[index++] = element\n return result\n}\n\n/**\n * Returns a [Map] containing key-value pairs
provided by [transform] function\n * applied to elements of the given collection.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n */\npublic inline fun <T, K, V> Iterable<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the given collection indexed by the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n */\npublic inline fun <T, K> Iterable<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n
return associateByTo(LinkedHashMap<K, T>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to elements of the given collection.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n */\npublic inline fun <T, K, V> Iterable<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n val capacity = mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each element of the given collection\n * and value is the element itself.\n
* \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <T, K, M : MutableMap<in K, in T>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to elements of the given collection.\n * \n * If any two elements would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Iterable<T>.associateByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n

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return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each element of the given collection.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Iterable<T>.associateTo(destination: M, transform: (T) -> Pair<K, V>): M {\n    for (element in this) {\n        destination += transform(element)\n    }\n    return destination\n}\n\n/**\n * Returns a [Map] where keys are elements from the given collection and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original collection.\n * \n * @sample samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V> Iterable<K>.associateWith(valueSelector:
 (K) -> V): Map<K, V> {\n    val result = LinkedHashMap<K,
V>(mapCapacity(collectionSizeOrDefault(10)).coerceAtLeast(16))\n    return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each element of the given collection,\n * where key is the element itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one overwrites the former value in the map.\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K, V, M : MutableMap<in K, in V>> Iterable<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n    for (element in this) {\n        destination.put(element, valueSelector(element))\n    }\n    return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n */\npublic fun <T, C : MutableCollection<in T>> Iterable<T>.toCollection(destination: C): C {\n    for (item in this) {\n        destination.add(item)\n    }\n    return destination\n}\n\n/**\n * Returns a [HashSet] of all elements.\n */\npublic fun <T> Iterable<T>.toHashSet(): HashSet<T> {\n    return toCollection(HashSet<T>(mapCapacity(collectionSizeOrDefault(12))))\n}\n\n/**\n * Returns a [List] containing all elements.\n */\npublic fun <T> Iterable<T>.toList(): List<T> {\n    if (this is Collection) {\n        return when (size) {\n            0 -> emptyList()\n            1 -> listOf(if (this is List) get(0) else iterator().next())\n            else -> this.toMutableList()\n        }\n    }\n    return this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this collection.\n */\npublic fun <T> Iterable<T>.toMutableList(): MutableList<T> {\n    if (this is Collection<T>)\n        return this.toMutableList()\n    return toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this collection.\n */\npublic fun
 <T> Collection<T>.toMutableList(): MutableList<T> {\n    return ArrayList(this)\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic fun <T> Iterable<T>.toSet(): Set<T> {\n    if (this is Collection) {\n        return when (size) {\n            0 -> emptySet()\n            1 -> setOf(if (this is List) this[0] else iterator().next())\n            else -> toCollection(LinkedHashSet<T>(mapCapacity(size)))\n        }\n    }\n    return toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original collection.\n */\npublic inline fun <T, R> Iterable<T>.flatMap(transform: (T) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original
 collection, to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.flatMapTo(destination: C, transform: (T) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K> Iterable<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n    return groupByTo(LinkedHashMap<K,
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MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original
collection\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original collection.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Iterable<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n   return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original collection by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K, M : MutableMap<in
K, MutableList<T>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<T>() }\n   list.add(element)\n   }\n   return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original collection\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Iterable<T>.groupByTo(destination: M, keySelector: (T) -> K, valueTransform: (T) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>()
    }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Creates a [Grouping] source from a collection to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each element.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Iterable<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n   return object : Grouping<T, K> {\n   override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n   override fun keyOf(element: T): K = keySelector(element)\n   }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original collection.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\npublic inline fun <T, R> Iterable<T>.map(transform: (T) -> R): List<R> {\n   return mapTo(ArrayList<R>(collectionSizeOrDefault(10)),
    transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original collection.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R> Iterable<T>.mapIndexed(transform: (index: Int, T) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(collectionSizeOrDefault(10)), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original collection.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any> Iterable<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): List<R> {\n   return mapIndexedNotNullTo(ArrayList<R>(),
    transform)\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original collection\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Iterable<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n   forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n   return destination\n}\n\n/**\n *

Applies the given [transform] function to each element and its index in the original collection\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(checkIndexOverflow(index++), item))\n return destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each element in the original collection.\n */\npublic inline fun <T, R : Any> Iterable<T>.mapNotNull(transform: (T) -> R?): List<R> {\n return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each element in the original collection\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Iterable<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original collection\n * and appends the results to the given [destination].\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Iterable<T>.mapTo(destination: C, transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original collection\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\npublic fun <T> Iterable<T>.withIndex(): Iterable<IndexedValue<T>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a list containing only distinct elements from the given collection.\n * \n * The elements in the resulting list are in the same order as they were in the source collection.\n */\npublic fun <T> Iterable<T>.distinct(): List<T> {\n return this.toMutableSet().toList()\n}\n\n/**\n * Returns a list containing only elements from the given collection\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting list are in the same order as they were in the source collection.\n */\npublic inline fun <T, K> Iterable<T>.distinctBy(selector: (T) -> K): List<T> {\n val set = HashSet<K>()\n val list = ArrayList<T>()\n for (e in this) {\n val key = selector(e)\n if (set.add(key))\n list.add(e)\n }\n return list\n}\n\n/**\n * Returns a set containing all elements that are contained by both this collection and the specified collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n * \n * To get a set containing all elements that are contained at least in one of these collections use [union].\n */\npublic infix fun <T> Iterable<T>.intersect(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.retainAll(other)\n return set\n}\n\n/**\n * Returns a set containing all elements that are contained by this collection and not contained by the specified collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic infix fun <T> Iterable<T>.subtract(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.removeAll(other)\n return set\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given collection.\n * \n * The returned set preserves the element iteration order of the original collection.\n */\npublic fun <T> Iterable<T>.toMutableSet(): MutableSet<T> {\n return when (this) {\n is Collection<T> -> LinkedHashSet(this)\n else -> toCollection(LinkedHashSet<T>())\n }\n}\n\n/**\n * Returns a set containing all distinct elements from both collections.\n * \n * The returned set preserves the element iteration order of the original collection.\n * Those elements of the [other] collection that are unique are iterated in the end\n * in the order of the [other] collection.\n * \n * To get a set containing all elements that are contained in both collections use [intersect].\n */\npublic infix fun <T> Iterable<T>.union(other: Iterable<T>): Set<T> {\n val set = this.toMutableSet()\n set.addAll(other)\n return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Iterable<T>.all(predicate: (T) -> Boolean): Boolean {\n if (this is Collection && isEmpty()) return true\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if collection has at least one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Iterable<T>.any(): Boolean

{\n   if (this is Collection) return !isEmpty()\n   return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <T> Iterable<T>.any(predicate: (T) -> Boolean): Boolean {\n   if (this is Collection && isEmpty()) return false\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns the number of elements in this collection.\n */\npublic fun <T> Iterable<T>.count(): Int {\n   if (this is Collection) return size\n   var count = 0\n   for (element in this) checkCountOverflow(++count)\n   return count\n}\n\n/**\n * Returns the number of elements in this collection.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.count(): Int {\n   return size\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\npublic inline fun <T> Iterable<T>.count(predicate: (T) -> Boolean): Int {\n   if (this is Collection && isEmpty()) return 0\n   var count = 0\n   for (element in this) if (predicate(element)) checkCountOverflow(++count)\n   return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <T, R> Iterable<T>.fold(initial: R, operation: (acc: R, T) -> R): R {\n   var accumulator = initial\n   for (element in this) accumulator = operation(accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original collection.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\npublic inline fun <T, R> Iterable<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n   var index = 0\n   var accumulator = initial\n   for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <T, R> List<T>.foldRight(initial: R, operation: (T, acc: R) -> R): R {\n   var accumulator = initial\n   if (!isEmpty()) {\n   val iterator = listIterator(size)\n   while (iterator.hasPrevious()) {\n   accumulator = operation(iterator.previous(), accumulator)\n   }\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original list and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <T, R> List<T>.foldRightIndexed(initial: R, operation: (index: Int, T, acc: R) -> R): R {\n   var accumulator = initial\n   if (!isEmpty()) {\n   val iterator = listIterator(size)\n   while (iterator.hasPrevious()) {\n   val index = iterator.previousIndex()\n   accumulator = operation(index, iterator.previous(), accumulator)\n   }\n   }\n   return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n */\n@kotlin.internal.HidesMembers\npublic inline fun <T> Iterable<T>.forEach(action: (T) -> Unit): Unit {\n   for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n */\npublic inline fun <T> Iterable<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n   var index = 0\n   for (item in this) action(checkIndexOverflow(index++), item)\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Double>.max(): Double? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var max = iterator.next()\n   if (max.isNaN()) return max\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (e.isNaN()) return e\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Float>.max(): Float? {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return null\n   var max = iterator.next()\n   if (max.isNaN()) return max\n   while (iterator.hasNext()) {\n   val e = iterator.next()\n   if (e.isNaN()) return e\n   if (max < e) max = e\n   }\n   return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\npublic fun <T : Comparable<T>>

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Iterable<T>.max(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <T, R : Comparable<R>> Iterable<T>.maxBy(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var maxElem = iterator.next()\n    if (!iterator.hasNext()) return maxElem\n    var maxValue = selector(maxElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n            maxValue = v\n        }\n    } while (iterator.hasNext())\n    return maxElem\n}\n\n/**\n * Returns the first element having the
 largest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun <T> Iterable<T>.maxWith(comparator: Comparator<in T>): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var max = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(max, e) < 0) max = e\n    }\n    return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Double>.min(): Double? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    if (min.isNaN()) return min\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If
 any of elements is `NaN` returns `NaN`.\n */\n@SinceKotlin(\"1.1\")\npublic fun Iterable<Float>.min(): Float? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    if (min.isNaN()) return min\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (e.isNaN()) return e\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n */\npublic fun <T : Comparable<T>> Iterable<T>.min(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (min > e) min = e\n    }\n    return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <T, R : Comparable<R>>
 Iterable<T>.minBy(selector: (T) -> R): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var minElem = iterator.next()\n    if (!iterator.hasNext()) return minElem\n    var minValue = selector(minElem)\n    do {\n        val e = iterator.next()\n        val v = selector(e)\n        if (minValue > v) {\n            minElem = e\n            minValue = v\n        }\n    } while (iterator.hasNext())\n    return minElem\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\npublic fun <T> Iterable<T>.minWith(comparator: Comparator<in T>): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext()) return null\n    var min = iterator.next()\n    while (iterator.hasNext()) {\n        val e = iterator.next()\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns `true` if the collection has no elements.\n * \n * @sample
 samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Iterable<T>.none(): Boolean {\n    if (this is Collection) return isEmpty()\n    return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Iterable<T>.none(predicate: (T) -> Boolean): Boolean {\n    if (this is Collection && isEmpty()) return true\n    for (element in this) if (predicate(element)) return false\n    return true\n}\n\n/**\n * Performs the given [action] on each element and returns the collection itself afterwards.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, C : Iterable<T>> C.onEach(action: (T) -> Unit): C {\n    return apply { for (element in this) action(element) }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\npublic inline fun <S,
 T : S> Iterable<T>.reduce(operation: (acc: S, T) -> S): S {\n    val iterator = this.iterator()\n    if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty collection can't be reduced.\")\n    var accumulator: S = iterator.next()\n    while (iterator.hasNext()) {\n        accumulator = operation(accumulator,
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iterator.next())\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original collection.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\npublic inline fun <S, T : S> Iterable<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n   val iterator = this.iterator()\n   if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty collection can't be reduced.\")\n   var index = 1\n   var accumulator: S = iterator.next()\n   while (iterator.hasNext()) {\n   accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n */\npublic inline fun <S, T : S> List<T>.reduceRight(operation: (T, acc: S) -> S): S {\n   val iterator = listIterator(size)\n   if (!iterator.hasPrevious())\n   throw UnsupportedOperationException(\"Empty list can't be reduced.\")\n   var accumulator: S = iterator.previous()\n   while (iterator.hasPrevious()) {\n   accumulator = operation(iterator.previous(), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original list and current accumulator value.\n * @param [operation] function
 that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <S, T : S> List<T>.reduceRightIndexed(operation: (index: Int, T, acc: S) -> S): S {\n   val iterator = listIterator(size)\n   if (!iterator.hasPrevious())\n   throw UnsupportedOperationException(\"Empty list can't be reduced.\")\n   var accumulator: S = iterator.previous()\n   while (iterator.hasPrevious()) {\n   val index = iterator.previousIndex()\n   accumulator = operation(index, iterator.previous(), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the collection.\n */\npublic inline fun <T> Iterable<T>.sumBy(selector: (T) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function
 applied to each element in the collection.\n */\npublic inline fun <T> Iterable<T>.sumByDouble(selector: (T) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n */\npublic fun <T : Any> Iterable<T?>.requireNoNulls(): Iterable<T> {\n   for (element in this) {\n   if (element == null) {\n   throw IllegalArgumentException(\"null element found in $this.\")\n   }\n   }\n   @Suppress(\"UNCHECKED_CAST\")\n   return this as Iterable<T>\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n */\npublic fun <T : Any> List<T?>.requireNoNulls(): List<T> {\n   for (element in this) {\n   if (element == null) {\n   throw
 IllegalArgumentException(\"null element found in $this.\")\n   }\n   }\n   @Suppress(\"UNCHECKED_CAST\")\n   return this as List<T>\n}\n\n/**\n * Splits this collection into a list of lists each not exceeding the given [size].\n * \n * The last list in the resulting list may have less elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Iterable<T>.chunked(size: Int): List<List<T>> {\n   return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this collection into several lists each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return list of results of the [transform] applied to an each list.\n * \n * Note that the list passed to the [transform] function is ephemeral
 and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last list may have less elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this collection.\n * \n * @sample samples.text.Strings.chunkedTransform\n */\n@SinceKotlin(\"1.2\")\npublic fun <T,

R> Iterable<T>.chunked(size: Int, transform: (List<T>) -> R): List<R> {\n   return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Returns a list containing all elements of the original collection without the first occurrence of the given [element].\n */\npublic operator fun <T> Iterable<T>.minus(element: T): List<T> {\n   val result = ArrayList<T>(collectionSizeOrDefault(10))\n   var removed = false\n   return this.filterTo(result) { if (!removed && it == element) { removed = true; false } else true }\n}\n\n/**\n
 * Returns a list containing all elements of the original collection except the elements contained in the given [elements] array.\n * \n * The [elements] array may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Iterable<T>.minus(elements: Array<out T>): List<T> {\n   if (elements.isEmpty()) return this.toList()\n   val other = elements.toHashSet()\n   return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the given [elements] collection.\n * \n * The [elements] collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator
 fun <T> Iterable<T>.minus(elements: Iterable<T>): List<T> {\n   val other = elements.convertToSetForSetOperationWith(this)\n   if (other.isEmpty())\n   return this.toList()\n   return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection except the elements contained in the given [elements] sequence.\n * \n * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Iterable<T>.minus(elements: Sequence<T>): List<T> {\n   val other = elements.toHashSet()\n   if (other.isEmpty())\n   return this.toList()\n   return this.filterNot { it in other }\n}\n\n/**\n * Returns a list containing all elements of the original collection without the first occurrence of the given [element].\n */\n@kotlin.internal.InlineOnly\npublic
 inline fun <T> Iterable<T>.minusElement(element: T): List<T> {\n   return minus(element)\n}\n\n/**\n * Splits the original collection into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n */\npublic inline fun <T> Iterable<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n   val first = ArrayList<T>()\n   val second = ArrayList<T>()\n   for (element in this) {\n   if (predicate(element)) {\n   first.add(element)\n   } else {\n   second.add(element)\n   }\n   }\n   return Pair(first, second)\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\npublic operator fun <T> Iterable<T>.plus(element: T): List<T> {\n   if (this is Collection) return this.plus(element)\n   val result = ArrayList<T>()\n   result.addAll(this)\n   result.add(element)\n
    return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\npublic operator fun <T> Collection<T>.plus(element: T): List<T> {\n   val result = ArrayList<T>(size + 1)\n   result.addAll(this)\n   result.add(element)\n   return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] array.\n */\npublic operator fun <T> Iterable<T>.plus(elements: Array<out T>): List<T> {\n   if (this is Collection) return this.plus(elements)\n   val result = ArrayList<T>()\n   result.addAll(this)\n   result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] array.\n */\npublic operator fun <T> Collection<T>.plus(elements: Array<out T>): List<T> {\n   val result = ArrayList<T>(this.size + elements.size)\n   result.addAll(this)\n   result.addAll(elements)\n
    return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.\n */\npublic operator fun <T> Iterable<T>.plus(elements: Iterable<T>): List<T> {\n   if (this is Collection) return this.plus(elements)\n   val result = ArrayList<T>()\n   result.addAll(this)\n   result.addAll(elements)\n   return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] collection.\n */\npublic operator fun <T>

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Collection<T>.plus(elements: Iterable<T>): List<T> {\n    if (elements is Collection) {\n        val result = ArrayList<T>(this.size + elements.size)\n        result.addAll(this)\n        result.addAll(elements)\n        return result\n    } else {\n        val result = ArrayList<T>(this)\n        result.addAll(elements)\n        return result\n    }\n}\n\n/**\n * Returns a list containing all elements of the original
 collection and then all elements of the given [elements] sequence.\n */\npublic operator fun <T> Iterable<T>.plus(elements: Sequence<T>): List<T> {\n    val result = ArrayList<T>()\n    result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then all elements of the given [elements] sequence.\n */\npublic operator fun <T> Collection<T>.plus(elements: Sequence<T>): List<T> {\n    val result = ArrayList<T>(this.size + 10)\n    result.addAll(this)\n    result.addAll(elements)\n    return result\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.plusElement(element: T): List<T> {\n    return plus(element)\n}\n\n/**\n * Returns a list containing all elements of the original collection and then the given [element].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Collection<T>.plusElement(element: T): List<T> {\n    return plus(element)\n}\n\n/**\n * Returns a list of snapshots of the window of the given [size]\n * sliding along this collection with the given [step], where each\n * snapshot is a list.\n * \n * Several last lists may have less elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this collection.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<List<T>> {\n    checkWindowSizeStep(size,
 step)\n    if (this is RandomAccess && this is List) {\n        val thisSize = this.size\n        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n        val result = ArrayList<List<T>>(resultCapacity)\n        var index = 0\n        while (index in 0 until thisSize) {\n            val windowSize = size.coerceAtMost(thisSize - index)\n            if (windowSize < size && !partialWindows) break\n            result.add(List(windowSize) { this[it + index] })\n            index += step\n        }\n        return result\n    }\n    val result = ArrayList<List<T>>()\n    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = false).forEach {\n        result.add(it)\n    }\n    return result\n}\n\n/**\n * Returns a list of results of applying the given [transform] function to\n * an each list representing a view over the window of the given [size]\n * sliding along this collection with the given [step].\n * \n * Note that the list passed to
 the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last lists may have less elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this collection.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Iterable<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): List<R> {\n    checkWindowSizeStep(size, step)\n    if (this is RandomAccess && this
 is List) {\n        val thisSize = this.size\n        val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n        val result = ArrayList<R>(resultCapacity)\n        val window = MovingSubList(this)\n        var index = 0\n        while (index in 0 until thisSize) {\n            val windowSize = size.coerceAtMost(thisSize - index)\n            if (!partialWindows && windowSize < size) break\n            window.move(index, index + windowSize)\n            result.add(transform(window))\n            index += step\n        }\n        return result\n    }\n    val result = ArrayList<R>()\n    windowedIterator(iterator(), size, step, partialWindows, reuseBuffer = true).forEach {\n
```

result.add(transform(it))\n }\n return result\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other: Array<out R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` collection and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Iterable<T>.zip(other: Array<out R>, transform: (a: T, b: R) -> V): List<V> {\n val arraySize = other.size\n val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in this) {\n if (i >= arraySize) break\n list.add(transform(element, other[i++]))\n }\n return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] collection with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\npublic infix fun <T, R> Iterable<T>.zip(other: Iterable<R>): List<Pair<T, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` collection and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\npublic inline fun <T, R, V> Iterable<T>.zip(other: Iterable<R>, transform: (a: T, b: R) -> V): List<V> {\n val first = iterator()\n val second = other.iterator()\n val list = ArrayList<V>(minOf(collectionSizeOrDefault(10), other.collectionSizeOrDefault(10)))\n while (first.hasNext() && second.hasNext()) {\n list.add(transform(first.next(), second.next()))\n }\n return list\n}\n\n/**\n * Returns a list of pairs of each two adjacent elements in this collection.\n * \n * The returned list is empty if this collection contains less than two elements.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Iterable<T>.zipWithNext(): List<Pair<T, T>> {\n return zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to an each pair of two adjacent elements in this collection.\n * \n * The returned list is empty if this collection contains less than two elements.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin(\"1.2\")\npublic inline fun <T, R> Iterable<T>.zipWithNext(transform: (a: T, b: T) -> R): List<R> {\n val iterator = iterator()\n if (!iterator.hasNext()) return emptyList()\n val result = mutableListOf<R>()\n var current = iterator.next()\n while (iterator.hasNext()) {\n val next = iterator.next()\n result.add(transform(current, next))\n current = next\n }\n return result\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable> Iterable<T>.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): A {\n buffer.append(prefix)\n var count = 0\n for (element in this) {\n if (++count > 1) buffer.append(separator)\n if (limit < 0 || count <= limit) {\n buffer.appendElement(element, transform)\n } else break\n }\n if (limit >= 0 && count > limit) buffer.append(truncated)\n buffer.append(postfix)\n return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T> Iterable<T>.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n return

joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated,
transform).toString()\n}\n\n/**\n * Returns this collection as an [Iterable].\n
*/\n@kotlin.internal.InlineOnly\npublic inline fun <T> Iterable<T>.asIterable(): Iterable<T> {\n return
this\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original collection returning its elements when being
iterated.\n * \n * @sample samples.collections.Sequences.Building.sequenceFromCollection\n */\npublic fun <T>
Iterable<T>.asSequence(): Sequence<T> {\n return Sequence { this.iterator() }\n}\n\n/**\n * Returns an average
value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic fun
Iterable<Byte>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*/\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Iterable<Short>.average():
Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun
Iterable<Int>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*/\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Iterable<Long>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
an average
value of elements in the collection.\n */\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun
Iterable<Float>.average(): Double {\n var sum: Double = 0.0\n var count: Int = 0\n for (element in this) {\n
sum += element\n checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum /
count\n}\n\n/**\n * Returns an average value of elements in the collection.\n
*/\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Iterable<Double>.average(): Double {\n var sum:
Double = 0.0\n var count: Int = 0\n for (element in this) {\n sum += element\n
checkCountOverflow(++count)\n }\n return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns
the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun
Iterable<Byte>.sum(): Int {\n var sum: Int = 0\n for (element in this) {\n sum += element\n }\n return
sum\n}\n\n/**\n * Returns the sum of all elements in the
collection.\n */\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun Iterable<Short>.sum(): Int {\n var sum: Int
= 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of all
elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun Iterable<Int>.sum(): Int {\n var
sum: Int = 0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n * Returns the sum of
all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Iterable<Long>.sum():
Long {\n var sum: Long = 0L\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n/**\n *
Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic fun
Iterable<Float>.sum(): Float {\n var sum: Float = 0.0f\n for (element in this) {\n sum += element\n }\n
return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n
*/\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Iterable<Double>.sum(): Double {\n var sum: Double
= 0.0\n for (element in this) {\n sum += element\n }\n return sum\n}\n\n","/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\nimport
kotlin.comparisons.naturalOrder\nimport kotlin.random.Random\n\n/** Returns the array if it's not `null`, or an
empty array otherwise. */\n@kotlin.internal.InlineOnly\npublic actual inline fun <T> Array<out T>?.orEmpty():
Array<out T> = this ?: emptyArray<T>()\n\n@kotlin.internal.InlineOnly\npublic actual inline fun <T>
Collection<T>.toTypedArray(): Array<T> =

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copyToArray(this)\n\n@JsName(\"copyToArray\")\n@PublishedApi\ninternal fun <T> copyToArray(collection: Collection<T>): Array<T> {\n    return if (collection.asDynamic().toArray !== undefined)\n        collection.asDynamic().toArray().unsafeCast<Array<T>>()\n    else\n copyToArrayImpl(collection).unsafeCast<Array<T>>()\n}\n\n@JsName(\"copyToArrayImpl\")\ninternal actual fun copyToArrayImpl(collection: Collection<*>): Array<Any?> {\n    val array = emptyArray<Any?>()\n    val iterator = collection.iterator()\n    while (iterator.hasNext())\n        array.asDynamic().push(iterator.next())\n    return array\n}\n\n@JsName(\"copyToExistingArrayImpl\")\ninternal actual fun <T> copyToArrayImpl(collection: Collection<*>, array: Array<T>): Array<T> {\n    if (array.size < collection.size)\n        return copyToArrayImpl(collection).unsafeCast<Array<T>>()\n\n    val iterator = collection.iterator()\n    var index = 0\n    while (iterator.hasNext()) {\n        array[index++] = iterator.next().unsafeCast<T>()\n    }\n    if (index < array.size) {\n        array[index] = null.unsafeCast<T>()\n    }\n    return array\n}\n\n/**\n * Returns an immutable list containing only
 the specified object [element].\n */\npublic fun <T> listOf(element: T): List<T> = arrayListOf(element)\n\n/**\n * Returns an immutable set containing only the specified object [element].\n */\npublic fun <T> setOf(element: T): Set<T> = hashSetOf(element)\n\n/**\n * Returns an immutable map, mapping only the specified key to the\n * specified value.\n */\npublic fun <K, V> mapOf(pair: Pair<K, V>): Map<K, V> = hashMapOf(pair)\n\n/**\n * Fills the list with the provided [value].\n *\n * Each element in the list gets replaced with the [value].\n */\n@SinceKotlin(\"1.2\")\npublic actual fun <T> MutableList<T>.fill(value: T): Unit {\n    for (index in 0..lastIndex) {\n        this[index] = value\n    }\n}\n\n/**\n * Randomly shuffles elements in this list.\n *\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.2\")\npublic actual fun <T> MutableList<T>.shuffle(): Unit = shuffle(Random)\n\n/**\n * Returns a new list with the elements
 of this list randomly shuffled.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun <T> Iterable<T>.shuffled(): List<T> = toMutableList().apply { shuffle() }\n\n/**\n * Sorts elements in the list in-place according to their natural sort order.\n *\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic actual fun <T : Comparable<T>> MutableList<T>.sort(): Unit {\n    collectionsSort(this, naturalOrder())\n}\n\n/**\n * Sorts elements in the list in-place according to the order specified with [comparator].\n *\n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\npublic actual fun <T> MutableList<T>.sortWith(comparator: Comparator<in T>): Unit {\n    collectionsSort(this, comparator)\n}\n\nprivate fun <T> collectionsSort(list: MutableList<T>, comparator: Comparator<in T>) {\n    if (list.size <= 1) return\n\n    val array = copyToArray(list)\n    sortArrayWith(array, comparator)\n\n    for (i in 0 until array.size) {\n        list[i] = array[i]\n    }\n}\n\ninternal actual fun <T> arrayOfNulls(reference: Array<T>, size: Int): Array<T> {\n    return arrayOfNulls<Any>(size).unsafeCast<Array<T>>()\n}\n\n@SinceKotlin(\"1.3\")\n@PublishedApi\n@JsName(\"arrayCopy\")\ninternal fun <T> arrayCopy(source: Array<out T>, destination: Array<in T>, destinationOffset: Int, startIndex: Int, endIndex: Int) {\n    AbstractList.checkRangeIndexes(startIndex, endIndex, source.size)\n    val rangeSize = endIndex - startIndex\n    AbstractList.checkRangeIndexes(destinationOffset, destinationOffset + rangeSize, destination.size)\n\n    if (js(\"ArrayBuffer\").isView(destination) && js(\"ArrayBuffer\").isView(source)) {\n        val subrange = source.asDynamic().subarray(startIndex, endIndex)\n        destination.asDynamic().set(subrange, destinationOffset)\n    } else {\n        if (source !== destination || destinationOffset <= startIndex) {\n            for (index in 0 until rangeSize) {\n                destination[destinationOffset + index] = source[startIndex + index]\n            }\n        } else {\n            for (index in rangeSize - 1 downTo 0) {\n                destination[destinationOffset + index] = source[startIndex + index]\n            }\n        }\n    }\n}\n\n// no singleton map implementation in js, return map as is\n@Suppress(\"NOTHING_TO_INLINE\")\ninternal actual inline fun <K, V> Map<K, V>.toSingletonMapOrSelf(): Map<K, V> = this\n\n@Suppress(\"NOTHING_TO_INLINE\")\ninternal actual inline fun <K, V> Map<out K, V>.toSingletonMap(): Map<K, V> = this.toMutableMap()\n\n\n@Suppress(\"NOTHING_TO_INLINE\")\ninternal actual inline fun <T> Array<out
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T>.copyToArrayOfAny(isVarargs: Boolean): Array<out Any?> =\n   if (isVarargs)\n   // no need to copy vararg array in JS\n   this\n   else\n   this.copyOf()\n\n\n\n@PublishedApi\ninternal actual fun checkIndexOverflow(index: Int): Int {\n   if (index < 0) {\n   throwIndexOverflow()\n   }\n   return index\n}\n\n@PublishedApi\ninternal actual fun checkCountOverflow(count: Int): Int {\n   if (count < 0) {\n   throwCountOverflow()\n   }\n   return count\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\n\n/**\n * Returns the given iterator itself. This allows to use an instance of iterator in a `for` loop.\n * @sample samples.collections.Iterators.iterator\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Iterator<T>.iterator(): Iterator<T> = this\n\n/**\n * Returns an [Iterator] that wraps each element produced by the original iterator\n * into an [IndexedValue] containing the index of that element and the element itself.\n *\n * @sample
 samples.collections.Iterators.withIndexIterator\n */\npublic fun <T> Iterator<T>.withIndex(): Iterator<IndexedValue<T>> = IndexingIterator(this)\n\n/**\n * Performs the given [operation] on each element of this [Iterator].\n * @sample samples.collections.Iterators.forEachIterator\n */\npublic inline fun <T> Iterator<T>.forEach(operation: (T) -> Unit): Unit {\n   for (element in this) operation(element)\n}\n\n/**\n * Iterator transforming original `iterator` into iterator of [IndexedValue], counting index from zero.\n */\ninternal class IndexingIterator<out T>(private val iterator: Iterator<T>) : Iterator<IndexedValue<T>> {\n   private var index = 0\n   final override fun hasNext(): Boolean = iterator.hasNext()\n   final override fun next(): IndexedValue<T> = IndexedValue(checkIndexOverflow(index++), iterator.next())\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
 can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ComparisonsKt\")\n\npackage kotlin.comparisons\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns the greater of two values.\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> maxOf(a: T, b: T): T\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte): Byte\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short): Short\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int): Int\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Long, b: Long): Long\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float): Float\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double): Double\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> maxOf(a: T, b: T, c: T): T\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Byte, b: Byte, c: Byte): Byte\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Short, b: Short, c: Short): Short\n\n/**\n * Returns the greater
 of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Int, b: Int, c: Int): Int\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the greater of three values.\n

*/\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Float, b: Float, c: Float): Float\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun maxOf(a: Double, b: Double, c: Double): Double\n\n/**\n * Returns the greater of three values according to the order specified by the given [comparator].\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> maxOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n   return maxOf(a, maxOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the greater of two values according to the order
 specified by the given [comparator].\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> maxOf(a: T, b: T, comparator: Comparator<in T>): T {\n   return if (comparator.compare(a, b) >= 0) a else b\n}\n\n/**\n * Returns the smaller of two values.\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T): T\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b: Byte): Byte\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short): Short\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Int, b: Int): Int\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic
 expect inline fun minOf(a: Long, b: Long): Long\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float): Float\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double): Double\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\npublic expect fun <T : Comparable<T>> minOf(a: T, b: T, c: T): T\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Byte, b: Byte, c: Byte): Byte\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Short, b: Short, c: Short): Short\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline
 fun minOf(a: Int, b: Int, c: Int): Int\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Long, b: Long, c: Long): Long\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Float, b: Float, c: Float): Float\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic expect inline fun minOf(a: Double, b: Double, c: Double): Double\n\n/**\n * Returns the smaller of three values according to the order specified by the given [comparator].\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> minOf(a: T, b: T, c: T, comparator: Comparator<in T>): T {\n   return minOf(a, minOf(b, c, comparator), comparator)\n}\n\n/**\n * Returns the smaller of two values according to the order specified by the given [comparator].\n * If values are equal, returns the first one.\n */\n@SinceKotlin(\"1.1\")\npublic
 fun <T> minOf(a: T, b: T, comparator: Comparator<in T>): T {\n   return if (comparator.compare(a, b) <= 0) a else b\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"MapsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a [List] containing all key-value pairs.\n */\npublic fun <K, V> Map<out K, V>.toList(): List<Pair<K, V>> {\n   if (size == 0)\n   return emptyList()\n   val iterator = entries.iterator()\n   if (!iterator.hasNext())\n   return emptyList()\n   val first = iterator.next()\n

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    if (!iterator.hasNext())\n        return listOf(first.toPair())\n    val result = ArrayList<Pair<K, V>>(size)\n    result.add(first.toPair())\n    do {\n        result.add(iterator.next().toPair())\n    } while (iterator.hasNext())\n    return result\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each entry of original map.\n */\npublic inline fun <K, V, R> Map<out K, V>.flatMap(transform: (Map.Entry<K, V>) -> Iterable<R>): List<R> {\n    return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each entry of original map, to the given [destination].\n */\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.flatMapTo(destination: C, transform: (Map.Entry<K, V>) -> Iterable<R>): C {\n    for (element in this) {\n        val list = transform(element)\n        destination.addAll(list)\n    }\n    return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each entry in the original map.\n * \n * @sample samples.collections.Maps.Transformations.mapToList\n */\npublic inline fun <K, V, R> Map<out K, V>.map(transform: (Map.Entry<K, V>) -> R): List<R> {\n    return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each entry in the original map.\n */\npublic inline fun <K, V, R : Any> Map<out K, V>.mapNotNull(transform: (Map.Entry<K, V>) -> R?): List<R> {\n    return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each entry in the original map\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <K, V, R : Any, C : MutableCollection<in R>> Map<out K, V>.mapNotNullTo(destination: C, transform: (Map.Entry<K, V>) -> R?): C {\n    forEach {
    element
    -> transform(element)?.let { destination.add(it) } }\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each entry of the original map\n * and appends the results to the given [destination].\n */\npublic inline fun <K, V, R, C : MutableCollection<in R>> Map<out K, V>.mapTo(destination: C, transform: (Map.Entry<K, V>) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Returns `true` if all entries match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <K, V> Map<out K, V>.all(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n    if (isEmpty()) return true\n    for (element in this) if (!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if map has at least one entry.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <K, V> Map<out K, V>.any(): Boolean {\n    return !isEmpty()\n}\n\n/**\n
    * Returns `true` if at least one entry matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun <K, V> Map<out K, V>.any(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n    if (isEmpty()) return false\n    for (element in this) if (predicate(element)) return true\n    return false\n}\n\n/**\n * Returns the number of entries in this map.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.count(): Int {\n    return size\n}\n\n/**\n * Returns the number of entries matching the given [predicate].\n */\npublic inline fun <K, V> Map<out K, V>.count(predicate: (Map.Entry<K, V>) -> Boolean): Int {\n    if (isEmpty()) return 0\n    var count = 0\n    for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Performs the given [action] on each entry.\n */\n@kotlin.internal.HidesMembers\npublic inline fun <K, V> Map<out K, V>.forEach(action: (Map.Entry<K,
    V>) -> Unit): Unit {\n    for (element in this) action(element)\n}\n\n/**\n * Returns the first entry yielding the largest value of the given function or `null` if there are no entries.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, R : Comparable<R>> Map<out K, V>.maxBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n    return entries.maxBy(selector)\n}\n\n/**\n * Returns the first entry having the largest value according to the provided [comparator] or `null` if there are no entries.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.maxWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n    return entries.maxWith(comparator)\n}\n\n/**\n * Returns the first entry yielding the smallest value of the given function or `null` if there are no entries.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic
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inline fun <K, V, R : Comparable<R>>
Map<out K, V>.minBy(selector: (Map.Entry<K, V>) -> R): Map.Entry<K, V>? {\n return entries.minBy(selector)\n}\n\n/**\n * Returns the first entry having the smallest value according to the provided [comparator] or `null` if there are no entries.\n */\npublic fun <K, V> Map<out K, V>.minWith(comparator: Comparator<in Map.Entry<K, V>>): Map.Entry<K, V>? {\n return entries.minWith(comparator)\n}\n\n/**\n * Returns `true` if the map has no entries.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <K, V> Map<out K, V>.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if no entries match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <K, V> Map<out K, V>.none(predicate: (Map.Entry<K, V>) -> Boolean): Boolean {\n if (isEmpty()) return true\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Performs the given [action] on each entry and returns the map itself afterwards.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <K, V, M : Map<out K, V>> M.onEach(action: (Map.Entry<K, V>) -> Unit): M {\n return apply { for (element in this) action(element) }\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original map returning its entries when being iterated.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> Map<out K, V>.asIterable(): Iterable<Map.Entry<K, V>> {\n return entries\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original map returning its entries when being iterated.\n */\npublic fun <K, V> Map<out K, V>.asSequence(): Sequence<Map.Entry<K, V>> {\n return entries.asSequence()\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.ranges\n\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline operator fun Float.rangeTo(that: Float): ClosedFloatingPointRange<Float> =\n this.toDouble().rangeTo(that.toDouble()).unsafeCast<ClosedFloatingPointRange<Float>>()\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SequencesKt\")\n\npackage kotlin.sequences\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns `true` if [element] is found in the sequence.\n *\n * The operation is _terminal_.\n */\npublic operator fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.contains(element: T): Boolean {\n return indexOf(element) >= 0\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic fun <T> Sequence<T>.elementAt(index: Int): T {\n return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"Sequence doesn't contain element at index $index.\") }\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\npublic fun <T> Sequence<T>.elementAtOrElse(index: Int, defaultValue: (Int) -> T): T {\n if (index < 0)\n return defaultValue(index)\n val iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n val element = iterator.next()\n if (index == count++)\n return element\n }\n return defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\npublic fun <T> Sequence<T>.elementAtOrNull(index: Int): T? {\n if (index < 0)\n return null\n val iterator = iterator()\n var count = 0\n while (iterator.hasNext()) {\n val element = iterator.next()\n if (index == count++)\n return element\n }\n return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n */\n@kotlin.internal.InlineOnly\npublic inline

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fun <T> Sequence<T>.find(predicate: (T) -> Boolean): T? {\n    return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n
 */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.findLast(predicate: (T) -> Boolean): T? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws [NoSuchElementException] if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.first(): T {\n    val iterator = iterator()\n    if (!iterator.hasNext())\n        throw NoSuchElementException(\"Sequence is empty.\")\n    return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.first(predicate: (T) -> Boolean): T {\n    for (element in this) if (predicate(element)) return element\n    throw NoSuchElementException(\"Sequence contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element, or `null` if the sequence is empty.\n *\n * The operation is _terminal_.\n
 */\npublic fun <T> Sequence<T>.firstOrNull(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext())\n        return null\n    return iterator.next()\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.firstOrNull(predicate: (T) -> Boolean): T? {\n    for (element in this) if (predicate(element)) return element\n    return null\n}\n\n/**\n * Returns first index of [element], or -1 if the sequence does not contain element.\n *\n * The operation is _terminal_.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.indexOf(element: T): Int {\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (element == item)\n            return index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the sequence does not contain
 such element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.indexOfFirst(predicate: (T) -> Boolean): Int {\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (predicate(item))\n            return index\n        index++\n    }\n    return -1\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the sequence does not contain such element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.indexOfLast(predicate: (T) -> Boolean): Int {\n    var lastIndex = -1\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (predicate(item))\n            lastIndex = index\n        index++\n    }\n    return lastIndex\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.last(): T {\n    val iterator = iterator()\n
    if (!iterator.hasNext())\n        throw NoSuchElementException(\"Sequence is empty.\")\n    var last = iterator.next()\n    while (iterator.hasNext())\n        last = iterator.next()\n    return last\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.last(predicate: (T) -> Boolean): T {\n    var last: T? = null\n    var found = false\n    for (element in this) {\n        if (predicate(element)) {\n            last = element\n            found = true\n        }\n    }\n    if (!found) throw NoSuchElementException(\"Sequence contains no element matching the predicate.\")\n    @Suppress(\"UNCHECKED_CAST\")\n    return last as T\n}\n\n/**\n * Returns last index of [element], or -1 if the sequence does not contain element.\n *\n * The operation is _terminal_.\n */\npublic fun <@kotlin.internal.OnlyInputTypes T> Sequence<T>.lastIndexOf(element:
 T): Int {\n    var lastIndex = -1\n    var index = 0\n    for (item in this) {\n        checkIndexOverflow(index)\n        if (element == item)\n            lastIndex = index\n        index++\n    }\n    return lastIndex\n}\n\n/**\n * Returns the last element, or `null` if the sequence is empty.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.lastOrNull(): T? {\n    val iterator = iterator()\n    if (!iterator.hasNext())\n        return null\n    var last = iterator.next()\n    while (iterator.hasNext())\n        last = iterator.next()\n    return last\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.lastOrNull(predicate: (T) -> Boolean): T? {\n    var last: T? =
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null\n   for (element in this) {\n   if (predicate(element)) {\n   last = element\n   }\n   }\n   return last\n}\n\n/**\n * Returns
the single element, or throws an exception if the sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.single(): T {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   throw NoSuchElementException(\"Sequence is empty.\")\n   val single = iterator.next()\n   if (iterator.hasNext())\n   throw IllegalArgumentException(\"Sequence has more than one element.\")\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.single(predicate: (T) -> Boolean): T {\n   var single: T? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Sequence contains more than one matching element.\")\n   single = element\n
found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Sequence contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as T\n}\n\n/**\n * Returns single element, or `null` if the sequence is empty or has more than one element.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.singleOrNull(): T? {\n   val iterator = iterator()\n   if (!iterator.hasNext())\n   return null\n   val single = iterator.next()\n   if (iterator.hasNext())\n   return null\n   return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.singleOrNull(predicate: (T) -> Boolean): T? {\n   var single: T? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) return null\n
single = element\n   found = true\n   }\n   }\n   if (!found) return null\n   return single\n}\n\n/**\n * Returns a sequence containing all elements except first [n] elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.drop(n: Int): Sequence<T> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   return when {\n   n == 0 -> this\n   this is DropTakeSequence -> this.drop(n)\n   else -> DropSequence(this, n)\n   }\n}\n\n/**\n * Returns a sequence containing all elements except first elements that satisfy the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\npublic fun <T> Sequence<T>.dropWhile(predicate: (T) -> Boolean): Sequence<T> {\n   return
DropWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence containing only elements matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T> Sequence<T>.filter(predicate: (T) -> Boolean): Sequence<T> {\n   return FilteringSequence(this, true, predicate)\n}\n\n/**\n * Returns a sequence containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T> Sequence<T>.filterIndexed(predicate: (index: Int, T) -> Boolean): Sequence<T> {\n   // TODO: Rewrite with generalized MapFilterIndexingSequence\n   return TransformingSequence(FilteringSequence(IndexingSequence(this), true, { predicate(it.index, it.value) }), { it.value })\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n
* @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterIndexedTo(destination: C, predicate: (index: Int, T) -> Boolean): C {\n   forEachIndexed { index, element ->\n   if (predicate(index, element)) destination.add(element)\n   }\n   return destination\n}\n\n/**\n * Returns a sequence containing all elements that are instances of specified type parameter R.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic inline fun <reified R> Sequence<*>.filterIsInstance(): Sequence<@kotlin.internal.NoInfer R> {\n   @Suppress(\"UNCHECKED_CAST\")\n   return filter { it is R } as Sequence<R>\n}\n\n/**\n * Appends all

elements that are instances of specified type parameter R to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic
inline fun <reified R, C : MutableCollection<in R>> Sequence<*>.filterIsInstanceTo(destination: C): C {\n for (element in this) if (element is R) destination.add(element)\n return destination\n}\n\n/**\n * Returns a sequence containing all elements not matching the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T> Sequence<T>.filterNot(predicate: (T) -> Boolean): Sequence<T> {\n return FilteringSequence(this, false, predicate)\n}\n\n/**\n * Returns a sequence containing all elements that are not `null`.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T : Any> Sequence<T?>.filterNotNull(): Sequence<T> {\n @Suppress(\"UNCHECKED_CAST\")\n return filterNot { it == null } as Sequence<T>\n}\n\n/**\n * Appends all elements that are not `null` to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic fun <C : MutableCollection<in T>, T : Any> Sequence<T?>.filterNotNullTo(destination: C):
C {\n for (element in this) if (element != null) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements not matching the given [predicate] to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterNotTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, C : MutableCollection<in T>> Sequence<T>.filterTo(destination: C, predicate: (T) -> Boolean): C {\n for (element in this) if (predicate(element)) destination.add(element)\n return destination\n}\n\n/**\n * Returns a sequence containing first [n] elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Sequence<T>.take(n: Int): Sequence<T> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n return when {\n n == 0 -> emptySequence()\n this is DropTakeSequence -> this.take(n)\n else -> TakeSequence(this, n)\n }\n}\n\n/**\n * Returns a sequence containing first elements satisfying the given [predicate].\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\npublic fun <T> Sequence<T>.takeWhile(predicate: (T) -> Boolean): Sequence<T> {\n return TakeWhileSequence(this, predicate)\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.sorted(): Sequence<T> {\n return object : Sequence<T> {\n override fun iterator(): Iterator<T> {\n val sortedList = this@sorted.toMutableList()\n sortedList.sort()\n return sortedList.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to natural sort order of the value returned by specified [selector] function.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.sortedBy(crossinline selector: (T) -> R?): Sequence<T> {\n return sortedWith(compareBy(selector))\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted descending according to natural sort order of the value returned by specified [selector] function.\n * \n *
The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.sortedByDescending(crossinline selector: (T) -> R?): Sequence<T> {\n return sortedWith(compareByDescending(selector))\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.sortedDescending(): Sequence<T> {\n return sortedWith(reverseOrder())\n}\n\n/**\n * Returns a sequence that yields elements of this sequence sorted according to the specified [comparator].\n * \n * The sort is _stable_. It means that equal elements preserve their order relative

to each other after
sorting.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T>
Sequence<T>.sortedWith(comparator: Comparator<in T>): Sequence<T> {\n return object : Sequence<T> {\n
override fun iterator(): Iterator<T> {\n val sortedList = this@sortedWith.toMutableList()\n
sortedList.sortWith(comparator)\n return sortedList.iterator()\n }\n }\n}\n\n/**\n * Returns a [Map]
containing key-value pairs provided by [transform] function\n * applied to elements of the given sequence.\n * \n *
If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves
the entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, K,
V> Sequence<T>.associate(transform: (T) -> Pair<K, V>): Map<K, V> {\n return
associateTo(LinkedHashMap<K, V>(), transform)\n}\n\n/**\n * Returns a [Map] containing the elements from the
given sequence indexed by
the key\n * returned from [keySelector] function applied to each element.\n * \n * If any two elements would have
the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the
entry iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, K>
Sequence<T>.associateBy(keySelector: (T) -> K): Map<K, T> {\n return associateByTo(LinkedHashMap<K,
T>(), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed
by [keySelector] functions applied to elements of the given sequence.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry
iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, K, V>
Sequence<T>.associateBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, V> {\n return
associateByTo(LinkedHashMap<K, V>(), keySelector, valueTransform)\n}\n\n/**\n * Populates and returns the
[destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to
each element of the given sequence\n * and value is the element itself.\n * \n * If any two elements would have the
same key returned by [keySelector] the last one gets added to the map.\n *\n * The operation is _terminal_.\n
*/\npublic inline fun <T, K, M : MutableMap<in K, in T>> Sequence<T>.associateByTo(destination: M,
keySelector: (T) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n
return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where
key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function
applied to elements of the given sequence.\n * \n * If any two elements would have the same key returned
by [keySelector] the last one gets added to the map.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T,
K, V, M : MutableMap<in K, in V>> Sequence<T>.associateByTo(destination: M, keySelector: (T) -> K,
valueTransform: (T) -> V): M {\n for (element in this) {\n destination.put(keySelector(element),
valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs\n * provided by [transform] function applied to each element of the given sequence.\n * \n
* If any of two pairs would have the same key the last one gets added to the map.\n *\n * The operation is
terminal.\n */\npublic inline fun <T, K, V, M : MutableMap<in K, in V>> Sequence<T>.associateTo(destination:
M, transform: (T) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n
return destination\n}\n\n/**\n * Returns a [Map] where keys are elements from the given sequence
and values are\n * produced by the [valueSelector] function applied to each element.\n * \n * If any two elements
are equal, the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the
original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample
samples.collections.Collections.Transformations.associateWith\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <K,
V> Sequence<K>.associateWith(valueSelector: (K) -> V): Map<K, V> {\n val result = LinkedHashMap<K,
V>()\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable
map with key-value pairs for each element of the given sequence,\n * where key is the element itself and value is
provided by the [valueSelector] function applied to that key.\n * \n * If any two elements are equal, the last one
overwrites the former value in the map.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.3\")\npublic
inline fun <K, V, M :

MutableMap<in K, in V>> Sequence<K>.associateWithTo(destination: M, valueSelector: (K) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n }\n return destination\n}\n\n/**\n * Appends all elements to the given [destination] collection.\n *\n * The operation is _terminal_.\n */\npublic fun <T, C : MutableCollection<in T>> Sequence<T>.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a [HashSet] of all elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toHashSet(): HashSet<T> {\n return toCollection(HashSet<T>())\n}\n\n/**\n * Returns a [List] containing all elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toList(): List<T> {\n return this.toMutableList().optimizeReadOnlyList()\n}\n\n/**\n * Returns a [MutableList] filled with all elements of this sequence.\n *\n * The operation
is _terminal_.\n */\npublic fun <T> Sequence<T>.toMutableList(): MutableList<T> {\n return toCollection(ArrayList<T>())\n}\n\n/**\n * Returns a [Set] of all elements.\n * \n * The returned set preserves the element iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toSet(): Set<T> {\n return toCollection(LinkedHashSet<T>()).optimizeReadOnlySet()\n}\n\n/**\n * Returns a single sequence of all elements from results of [transform] function being invoked on each element of original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R> Sequence<T>.flatMap(transform: (T) -> Sequence<R>): Sequence<R> {\n return FlatteningSequence(this, transform, { it.iterator() })\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original sequence, to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T,
R, C : MutableCollection<in R>> Sequence<T>.flatMapTo(destination: C, transform: (T) -> Sequence<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Groups elements of the original sequence by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <T, K> Sequence<T>.groupBy(keySelector: (T) -> K): Map<K, List<T>> {\n return groupByTo(LinkedHashMap<K, MutableList<T>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original sequence\n * by the key returned
by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original sequence.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V> Sequence<T>.groupBy(keySelector: (T) -> K, valueTransform: (T) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original sequence by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline
fun <T, K, M : MutableMap<in K, MutableList<T>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<T>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original sequence\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <T, K, V, M : MutableMap<in K, MutableList<V>>> Sequence<T>.groupByTo(destination: M, keySelector: (T) -> K,

valueTransform: (T) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Creates a [Grouping] source from a sequence to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each element.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Sequence<T>.groupingBy(crossinline keySelector: (T) -> K): Grouping<T, K> {\n return object : Grouping<T, K> {\n override fun sourceIterator(): Iterator<T> = this@groupingBy.iterator()\n override fun keyOf(element: T): K = keySelector(element)\n }\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to each element in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n *
@sample samples.collections.Collections.Transformations.map\n */\npublic fun <T, R> Sequence<T>.map(transform: (T) -> R): Sequence<R> {\n return TransformingSequence(this, transform)\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to each element and its index in the original sequence.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R> Sequence<T>.mapIndexed(transform: (index: Int, T) -> R): Sequence<R> {\n return TransformingIndexedSequence(this, transform)\n}\n\n/**\n * Returns a sequence containing only the non-null results of applying the given [transform] function\n * to each element and its index in the original sequence.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result
of the transform applied to the element.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R : Any> Sequence<T>.mapIndexedNotNull(transform: (index: Int, T) -> R?): Sequence<R> {\n return TransformingIndexedSequence(this, transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original sequence\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapIndexedNotNullTo(destination: C, transform: (index: Int, T) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and
its index in the original sequence\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapIndexedTo(destination: C, transform: (index: Int, T) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(checkIndexOverflow(index++), item))\n return destination\n}\n\n/**\n * Returns a sequence containing only the non-null results of applying the given [transform] function\n * to each element in the original sequence.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T, R : Any> Sequence<T>.mapNotNull(transform: (T) -> R?): Sequence<R> {\n return TransformingSequence(this, transform).filterNotNull()\n}\n\n/**\n * Applies the given [transform] function to each element
in the original sequence\n * and appends only the non-null results to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R : Any, C : MutableCollection<in R>> Sequence<T>.mapNotNullTo(destination: C, transform: (T) -> R?): C {\n forEach { element -> transform(element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original sequence\n * and appends the results to the given [destination].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R, C : MutableCollection<in R>> Sequence<T>.mapTo(destination: C, transform: (T) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a sequence that wraps each element of the original sequence\n * into an [IndexedValue] containing the index of that element and the element itself.\n *\n *

The operation is _intermediate_ and _stateless_.\n */\npublic
fun <T> Sequence<T>.withIndex(): Sequence<IndexedValue<T>> {\n return IndexingSequence(this)\n}\n\n/**\n * Returns a sequence containing only distinct elements from the given sequence.\n * \n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T> Sequence<T>.distinct(): Sequence<T> {\n return this.distinctBy { it }\n}\n\n/**\n * Returns a sequence containing only elements from the given sequence\n * having distinct keys returned by the given [selector] function.\n * \n * The elements in the resulting sequence are in the same order as they were in the source sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic fun <T, K> Sequence<T>.distinctBy(selector: (T) -> K): Sequence<T> {\n return DistinctSequence(this, selector)\n}\n\n/**\n * Returns a mutable set containing all distinct elements from the given sequence.\n * \n * The returned set preserves the element iteration order of the original sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.toMutableSet(): MutableSet<T> {\n val set = LinkedHashSet<T>()\n for (item in this) set.add(item)\n return set\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun <T> Sequence<T>.all(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (!predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if sequence has at least one element.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun <T> Sequence<T>.any(): Boolean {\n return iterator().hasNext()\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*/\npublic inline fun <T> Sequence<T>.any(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of elements in this sequence.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.count(): Int {\n var count = 0\n for (element in this) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.count(predicate: (T) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) checkCountOverflow(++count)\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R> Sequence<T>.fold(initial:
R, operation: (acc: R, T) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original sequence.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T, R> Sequence<T>.foldIndexed(initial: R, operation: (index: Int, acc: R, T) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(checkIndexOverflow(index++), accumulator, element)\n return accumulator\n}\n\n/**\n * Performs the given [action] on each element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.forEach(action:
(T) -> Unit): Unit {\n for (element in this) action(element)\n}\n\n/**\n * Performs the given [action] on each element, providing sequential index with the element.\n * @param [action] function that takes the index of an element and the element itself\n * and performs the desired action on the element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.forEachIndexed(action: (index: Int, T) -> Unit): Unit {\n var index = 0\n for (item in this) action(checkIndexOverflow(index++), item)\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Double>.max(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n if (max.isNaN()) return max\n while (iterator.hasNext()) {\n val e = iterator.next()\n

if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Float>.max(): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n if (max.isNaN()) return max\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (e.isNaN()) return e\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.max(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.maxBy(selector: (T) -> R): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var maxElem = iterator.next()\n if (!iterator.hasNext()) return maxElem\n var maxValue = selector(maxElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n } while (iterator.hasNext())\n return maxElem\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.maxWith(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var max = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Double>.min(): Double? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n if (min.isNaN()) return min\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n * \n * If any of elements is `NaN` returns `NaN`.\n *\n * The operation is _terminal_.\n */\n@SinceKotlin(\"1.1\")\npublic fun Sequence<Float>.min(): Float? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n if (min.isNaN()) return min\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (e.isNaN()) return e\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the smallest element or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T : Comparable<T>> Sequence<T>.min(): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (min > e) min = e\n }\n return min\n}\n\n/**\n * Returns the first element yielding the smallest value of the given function or `null` if there are no elements.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <T, R : Comparable<R>> Sequence<T>.minBy(selector: (T) -> R): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var minElem = iterator.next()\n if (!iterator.hasNext()) return minElem\n var minValue = selector(minElem)\n do {\n val e = iterator.next()\n val v = selector(e)\n if (minValue > v) {\n minElem = e\n minValue = v\n }\n } while (iterator.hasNext())\n return minElem\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n *\n * The operation is _terminal_.\n */\npublic fun <T> Sequence<T>.minWith(comparator: Comparator<in T>): T? {\n val iterator = iterator()\n if (!iterator.hasNext()) return null\n var min = iterator.next()\n while (iterator.hasNext()) {\n val e = iterator.next()\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the sequence has no elements.\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic fun <T> Sequence<T>.none(): Boolean {\n return !iterator().hasNext()\n}\n\n/**\n * Returns `true` if no elements match

the given [predicate].\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic inline fun <T> Sequence<T>.none(predicate: (T) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns a sequence which performs the given [action] on each element of the original sequence as they pass through it.\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@SinceKotlin(\"1.1\")\npublic fun <T> Sequence<T>.onEach(action: (T) -> Unit): Sequence<T> {\n return map {\n action(it)\n it\n }\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator
value and each element.\n *\n * The operation is _terminal_.\n */\npublic inline fun <S, T : S> Sequence<T>.reduce(operation: (acc: S, T) -> S): S {\n val iterator = this.iterator()\n if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty sequence can't be reduced.\")\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original sequence.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n *\n * The operation is _terminal_.\n */\npublic inline fun <S, T : S> Sequence<T>.reduceIndexed(operation: (index: Int, acc: S, T) -> S): S {\n val iterator = this.iterator()\n if (!iterator.hasNext()) throw UnsupportedOperationException(\"Empty sequence can't be reduced.\")\n var index = 1\n var accumulator: S = iterator.next()\n while (iterator.hasNext()) {\n accumulator = operation(checkIndexOverflow(index++), accumulator, iterator.next())\n }\n return accumulator\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.sumBy(selector: (T) -> Int): Int {\n var sum: Int = 0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the sequence.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.sumByDouble(selector: (T) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns an original collection containing all the non-`null` elements, throwing an [IllegalArgumentException] if there are any `null` elements.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic fun <T : Any> Sequence<T?>.requireNoNulls(): Sequence<T> {\n return map { it ?: throw IllegalArgumentException(\"null element found in $this.\") }\n}\n\n/**\n * Splits this sequence into a sequence of lists each not exceeding the given [size].\n * \n * The last list in the resulting sequence may have less elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Sequence<T>.chunked(size: Int): Sequence<List<T>> {\n return windowed(size, size, partialWindows
= true)\n}\n\n/**\n * Splits this sequence into several lists each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return sequence of results of the [transform] applied to an each list.\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last list may have less elements than the given [size].\n * \n * @param size the number of elements to take in each list, must be positive and can be greater than the number of elements in this sequence.\n *\n * The operation is _intermediate_ and _stateful_.\n * \n * @sample samples.text.Strings.chunkedTransform\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Sequence<T>.chunked(size: Int, transform: (List<T>) -> R): Sequence<R> {\n return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Returns
a sequence containing all elements of the original sequence without the first occurrence of the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.minus(element: T): Sequence<T> {\n return object: Sequence<T> {\n override fun iterator(): Iterator<T> {\n var

removed = false\n return this@minus.filter { if (!removed && it == element) { removed = true; false } else true }.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] array.\n * \n * Note that the source sequence and the array being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n * The [elements] array may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Array<out T>): Sequence<T> {\n if (elements.isEmpty()) return this\n return object: Sequence<T> {\n override fun iterator(): Iterator<T> {\n val other = elements.toHashSet()\n return this@minus.filterNot { it in other }.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] collection.\n * \n * Note that the source sequence and the collection being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n * \n * The [elements] collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n *\n * The operation is _intermediate_ and _stateful_.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Iterable<T>): Sequence<T> {\n return object: Sequence<T> {\n override fun iterator(): Iterator<T> {\n val other = elements.convertToSetForSetOperation()\n if (other.isEmpty())\n return this@minus.iterator()\n else\n return this@minus.filterNot { it in other }.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence containing all elements of original sequence except the elements contained in the given [elements] sequence.\n * \n * Note that the source sequence and the sequence being subtracted are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ for this sequence and _terminal_ and _stateful_ for the [elements] sequence.\n * \n * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Sequence<T>.minus(elements: Sequence<T>): Sequence<T> {\n return object: Sequence<T> {\n override fun iterator(): Iterator<T> {\n val other = elements.toHashSet()\n if (other.isEmpty())\n return this@minus.iterator()\n else\n return this@minus.filterNot { it in other }.iterator()\n }\n }\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence without the first occurrence of the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.minusElement(element: T): Sequence<T> {\n return minus(element)\n}\n\n/**\n * Splits the original sequence into pair of lists,\n * where *first* list contains elements for which [predicate] yielded `true`,\n * while *second* list contains elements for which [predicate] yielded `false`.\n *\n * The operation is _terminal_.\n */\npublic inline fun <T> Sequence<T>.partition(predicate: (T) -> Boolean): Pair<List<T>, List<T>> {\n val first = ArrayList<T>()\n val second = ArrayList<T>()\n for (element in this) {\n if (predicate(element)) {\n first.add(element)\n } else {\n second.add(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence and then the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(element: T): Sequence<T> {\n return sequenceOf(this, sequenceOf(element)).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] array.\n * \n * Note that the source sequence and the array being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Array<out T>): Sequence<T> {\n return this.plus(elements.asList())\n}\n\n/**\n *

Returns a sequence containing all elements of original sequence and then all elements of the given [elements] collection.\n * \n * Note that the source sequence and the collection being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Iterable<T>): Sequence<T> {\n return sequenceOf(this, elements.asSequence()).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of original sequence and then all elements of the given [elements] sequence.\n * \n * Note that the source sequence and the sequence being added are iterated only when an `iterator` is requested from\n * the resulting sequence. Changing any of them between successive calls to `iterator` may affect the result.\n *\n * The operation is _intermediate_ and _stateless_.\n */\npublic operator fun <T> Sequence<T>.plus(elements: Sequence<T>): Sequence<T> {\n return sequenceOf(this, elements).flatten()\n}\n\n/**\n * Returns a sequence containing all elements of the original sequence and then the given [element].\n *\n * The operation is _intermediate_ and _stateless_.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.plusElement(element: T): Sequence<T> {\n return plus(element)\n}\n\n/**\n * Returns a sequence of snapshots of the window of the given [size]\n * sliding along this sequence with the given [step], where each\n * snapshot is a list.\n * \n * Several last lists may have less elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): Sequence<List<T>> {\n return windowedSequence(size, step, partialWindows, reuseBuffer = false)\n}\n\n/**\n * Returns a sequence of results of applying the given [transform] function to\n * an each list representing a view over the window of the given [size]\n * sliding along this sequence with the given [step].\n * \n * Note that the list passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last lists may have less elements than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Sequence<T>.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (List<T>) -> R): Sequence<R> {\n return windowedSequence(size, step, partialWindows, reuseBuffer = true).map(transform)\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Sequences.Transformations.zip\n */\npublic infix fun <T, R> Sequence<T>.zip(other: Sequence<R>): Sequence<Pair<T, R>> {\n return MergingSequence(this, other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a sequence of values built from the elements of `this` sequence and the [other] sequence with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The resulting sequence ends as soon as the shortest input sequence ends.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Sequences.Transformations.zipWithTransform\n */\npublic fun <T, R, V> Sequence<T>.zip(other: Sequence<R>, transform: (a: T, b: R) -> V): Sequence<V> {\n return MergingSequence(this, other, transform)\n}\n\n/**\n * Returns a sequence of pairs of each two adjacent elements in this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two elements.\n *\n * The

operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin(\"1.2\")\npublic fun <T> Sequence<T>.zipWithNext(): Sequence<Pair<T, T>> {\n   return zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a sequence containing the results of applying the given [transform] function\n * to an each pair of two adjacent elements in this sequence.\n * \n * The returned sequence is empty if this sequence contains less than two elements.\n *\n * The operation is _intermediate_ and _stateless_.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin(\"1.2\")\npublic fun <T, R> Sequence<T>.zipWithNext(transform: (a: T, b: T) -> R): Sequence<R> {\n   return sequence result@ {\n   val iterator = iterator()\n   if (!iterator.hasNext()) return@result\n   var current = iterator.next()\n   while (iterator.hasNext()) {\n   val next = iterator.next()\n   yield(transform(current, next))\n   current = next\n   }\n   }\n}\n\n/**\n * Appends the string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.joinTo\n */\npublic fun <T, A : Appendable> Sequence<T>.joinTo(buffer: A, separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): A {\n   buffer.append(prefix)\n   var count = 0\n   for (element in this) {\n   if (++count > 1) buffer.append(separator)\n   if (limit < 0 || count <= limit) {\n   buffer.appendElement(element, transform)\n   } else break\n   }\n   if (limit >= 0 && count > limit) buffer.append(truncated)\n   buffer.append(postfix)\n   return buffer\n}\n\n/**\n * Creates a string from all the elements separated using [separator] and using the given [prefix] and [postfix] if supplied.\n * \n * If the collection could be huge, you can specify a non-negative value of [limit], in which case only the first [limit]\n * elements will be appended, followed by the [truncated] string (which defaults to \"...\").\n *\n * The operation is _terminal_.\n * \n * @sample samples.collections.Collections.Transformations.joinToString\n */\npublic fun <T> Sequence<T>.joinToString(separator: CharSequence = \", \", prefix: CharSequence = \"\", postfix: CharSequence = \"\", limit: Int = -1, truncated: CharSequence = \"...\", transform: ((T) -> CharSequence)? = null): String {\n   return joinTo(StringBuilder(), separator, prefix, postfix, limit, truncated, transform).toString()\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original sequence returning its elements when being iterated.\n */\npublic fun <T> Sequence<T>.asIterable(): Iterable<T> {\n   return Iterable { this.iterator() }\n}\n\n/**\n * Returns this sequence as a [Sequence].\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Sequence<T>.asSequence(): Sequence<T> {\n   return this\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfByte\")\npublic fun Sequence<Byte>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfShort\")\npublic fun Sequence<Short>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfInt\")\npublic fun Sequence<Int>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfLong\")\npublic fun Sequence<Long>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n

*/\n@kotlin.jvm.JvmName(\"averageOfFloat\")\npublic fun Sequence<Float>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns an average value of elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"averageOfDouble\")\npublic fun Sequence<Double>.average(): Double {\n   var sum: Double = 0.0\n   var count: Int = 0\n   for (element in this) {\n   sum += element\n   checkCountOverflow(++count)\n   }\n   return if (count == 0) Double.NaN else sum / count\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfByte\")\npublic fun Sequence<Byte>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfShort\")\npublic fun Sequence<Short>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfInt\")\npublic fun Sequence<Int>.sum(): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfLong\")\npublic fun Sequence<Long>.sum(): Long {\n   var sum: Long = 0L\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfFloat\")\npublic fun Sequence<Float>.sum(): Float {\n   var sum: Float = 0.0f\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfDouble\")\npublic fun Sequence<Double>.sum(): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SetsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns a set containing all elements of the original set except the given [element].\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.minus(element: T): Set<T> {\n   val result = LinkedHashSet<T>(mapCapacity(size))\n   var removed = false\n   return this.filterTo(result) { if (!removed && it == element) { removed = true;
    false } else true }\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] array.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * The [elements] array may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Set<T>.minus(elements: Array<out T>): Set<T> {\n   val result = LinkedHashSet<T>(this)\n   result.removeAll(elements)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the elements contained in the given [elements] collection.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * The [elements] collection may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Set<T>.minus(elements: Iterable<T>): Set<T> {\n   val other = elements.convertToSetForSetOperationWith(this)\n   if (other.isEmpty())\n   return this.toSet()\n   if (other is Set)\n   return this.filterNotTo(LinkedHashSet<T>()) { it in other }\n   val result = LinkedHashSet<T>(this)\n   result.removeAll(other)\n   return result\n}\n\n/**\n * Returns a set containing all elements of the original set

except the elements contained in the given [elements] sequence.\n * \n * The returned set preserves the element iteration order of the original set.\n * \n * The [elements] sequence may be converted to a [HashSet] to speed up the operation, thus the elements are required to have\n * a correct and stable implementation of `hashCode()` that doesn't change between successive invocations.\n */\npublic operator fun <T> Set<T>.minus(elements: Sequence<T>): Set<T> {\n val result = LinkedHashSet<T>(this)\n result.removeAll(elements)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set except the given [element].\n * \n * The returned set preserves the element iteration order of the original set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.minusElement(element: T): Set<T> {\n return minus(element)\n}\n\n/**\n * Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(element: T): Set<T> {\n val result = LinkedHashSet<T>(mapCapacity(size + 1))\n result.addAll(this)\n result.add(element)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] array,\n * which aren't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Array<out T>): Set<T> {\n val result = LinkedHashSet<T>(mapCapacity(this.size + elements.size))\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] collection,\n * which aren't already in this set.\n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Iterable<T>): Set<T> {\n val result = LinkedHashSet<T>(mapCapacity(elements.collectionSizeOrNull()?.let { this.size + it } ?: this.size * 2))\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set and the given [elements] sequence,\n * which aren't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\npublic operator fun <T> Set<T>.plus(elements: Sequence<T>): Set<T> {\n val result = LinkedHashSet<T>(mapCapacity(this.size * 2))\n result.addAll(this)\n result.addAll(elements)\n return result\n}\n\n/**\n * Returns a set containing all elements of the original set and then the given [element] if it isn't already in this set.\n * \n * The returned set preserves the element iteration order of the original set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Set<T>.plusElement(element: T): Set<T> {\n return plus(element)\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic expect fun CharSequence.elementAt(index: Int): Char\n\n/**\n * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.elementAtOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.elementAtOrNull(index: Int): Char? {\n return this.getOrNull(index)\n}\n\n/**\n * Returns the first character matching the given [predicate], or `null` if no such character was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.find(predicate: (Char) -> Boolean): Char? {\n return firstOrNull(predicate)\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no such character was found.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.findLast(predicate:

(Char) -> Boolean): Char? {\n return lastOrNull(predicate)\n}\n\n/**\n * Returns first character.\n * @throws [NoSuchElementException] if the char sequence is empty.\n */\npublic fun CharSequence.first(): Char {\n if (isEmpty())\n throw NoSuchElementException(\"Char sequence is empty.\")\n return this[0]\n}\n\n/**\n * Returns the first character matching the given [predicate].\n * @throws [NoSuchElementException] if no such character is found.\n */\npublic inline fun CharSequence.first(predicate: (Char) -> Boolean): Char {\n for (element in this) if (predicate(element)) return element\n throw NoSuchElementException(\"Char sequence contains no character matching the predicate.\")\n}\n\n/**\n * Returns the first character, or `null` if the char sequence is empty.\n */\npublic fun CharSequence.firstOrNull(): Char? {\n return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first character matching the given [predicate], or `null` if character was not found.\n */\npublic inline fun CharSequence.firstOrNull(predicate: (Char) -> Boolean): Char? {\n for (element in this) if (predicate(element)) return element\n return null\n}\n\n/**\n * Returns a character at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this char sequence.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.getOrElse(index: Int, defaultValue: (Int) -> Char): Char {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns a character at the given [index] or `null` if the [index] is out of bounds of this char sequence.\n */\npublic fun CharSequence.getOrNull(index: Int): Char? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns index of the first character matching the given [predicate], or -1 if the char sequence does not contain such character.\n */\npublic inline fun CharSequence.indexOfFirst(predicate: (Char) -> Boolean): Int {\n for (index in indices) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns index of the last character matching the given [predicate], or -1 if the char sequence does not contain such character.\n */\npublic inline fun CharSequence.indexOfLast(predicate: (Char) -> Boolean): Int {\n for (index in indices.reversed()) {\n if (predicate(this[index])) {\n return index\n }\n }\n return -1\n}\n\n/**\n * Returns the last character.\n * @throws [NoSuchElementException] if the char sequence is empty.\n */\npublic fun CharSequence.last(): Char {\n if (isEmpty())\n throw NoSuchElementException(\"Char sequence is empty.\")\n return this[lastIndex]\n}\n\n/**\n * Returns the last character matching the given [predicate].\n * @throws [NoSuchElementException] if no such character is found.\n */\npublic inline fun CharSequence.last(predicate: (Char) -> Boolean): Char {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Char sequence contains no character matching the predicate.\")\n}\n\n/**\n * Returns the last character, or `null` if the char sequence is empty.\n */\npublic fun CharSequence.lastOrNull(): Char? {\n return if (isEmpty()) null else this[length - 1]\n}\n\n/**\n * Returns the last character matching the given [predicate], or `null` if no such character was found.\n */\npublic inline fun CharSequence.lastOrNull(predicate: (Char) -> Boolean): Char? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns a random character from this char sequence.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.random(): Char {\n return random(Random)\n}\n\n/**\n * Returns a random character from this char sequence using the specified source of randomness.\n * \n * @throws NoSuchElementException if this char sequence is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun CharSequence.random(random: Random): Char {\n if (isEmpty())\n throw NoSuchElementException(\"Char sequence is empty.\")\n return get(random.nextInt(length))\n}\n\n/**\n * Returns the single character, or throws an exception if the char sequence is empty or has more than one character.\n */\npublic fun CharSequence.single(): Char {\n return when (length) {\n 0 -> throw NoSuchElementException(\"Char sequence is empty.\")\n 1 -> this[0]\n else -> throw IllegalArgumentException(\"Char sequence has more than one element.\")\n }\n}\n\n/**\n * Returns the single character matching the given [predicate], or throws exception if there is no or more than one matching character.\n */\npublic inline fun CharSequence.single(predicate: (Char) -> Boolean): Char {\n var single: Char? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if

(found) throw IllegalArgumentException(\"Char sequence contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found)
throw NoSuchElementException(\"Char sequence contains no character matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as Char\n}\n\n/**\n * Returns single character, or `null` if the char sequence is empty or has more than one character.\n */\npublic fun CharSequence.singleOrNull(): Char? {\n return if (length == 1) this[0] else null\n}\n\n/**\n * Returns the single character matching the given [predicate], or `null` if character was not found or more than one character was found.\n */\npublic inline fun CharSequence.singleOrNull(predicate: (Char) -> Boolean): Char? {\n var single: Char? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns a subsequence of this char sequence with the first [n] characters removed.\n * \n * @throws IllegalArgumentException
if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun CharSequence.drop(n: Int): CharSequence {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n return subSequence(n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string with the first [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun String.drop(n: Int): String {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n return substring(n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence with the last [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun CharSequence.dropLast(n: Int): CharSequence {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n return take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a string with the last [n] characters removed.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.drop\n */\npublic fun String.dropLast(n: Int): String {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n return take((length - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a subsequence of this char sequence containing all characters except last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun CharSequence.dropLastWhile(predicate: (Char) -> Boolean): CharSequence {\n for (index in lastIndex downTo 0)\n if (!predicate(this[index]))\n return subSequence(0, index + 1)\n return \"\"\n}\n\n/**\n * Returns a string containing all characters except last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun String.dropLastWhile(predicate:
(Char) -> Boolean): String {\n for (index in lastIndex downTo 0)\n if (!predicate(this[index]))\n return substring(0, index + 1)\n return \"\"\n}\n\n/**\n * Returns a subsequence of this char sequence containing all characters except first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun CharSequence.dropWhile(predicate: (Char) -> Boolean): CharSequence {\n for (index in this.indices)\n if (!predicate(this[index]))\n return subSequence(index, length)\n return \"\"\n}\n\n/**\n * Returns a string containing all characters except first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.drop\n */\npublic inline fun String.dropWhile(predicate: (Char) -> Boolean): String {\n for (index in this.indices)\n if (!predicate(this[index]))\n return substring(index)\n return \"\"\n}\n\n/**\n * Returns a char sequence containing only
those characters from the original char sequence that match the given [predicate].\n */\npublic inline fun CharSequence.filter(predicate: (Char) -> Boolean): CharSequence {\n return filterTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that match the given [predicate].\n */\npublic inline fun String.filter(predicate: (Char) -> Boolean): String {\n return filterTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Returns a char sequence containing only those characters from the original char sequence that match the given [predicate].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n */\npublic inline fun CharSequence.filterIndexed(predicate: (index: Int, Char) -> Boolean): CharSequence {\n return filterIndexedTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing

only those
characters from the original string that match the given [predicate].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n */\npublic inline fun String.filterIndexed(predicate: (index: Int, Char) -> Boolean): String {\n return filterIndexedTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Appends all characters matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of a character and the character itself\n * and returns the result of predicate evaluation on the character.\n */\npublic inline fun <C : Appendable> CharSequence.filterIndexedTo(destination: C, predicate: (index: Int, Char) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.append(element)\n }\n return destination\n}\n\n/**\n * Returns a char sequence containing only those characters
from the original char sequence that do not match the given [predicate].\n */\npublic inline fun CharSequence.filterNot(predicate: (Char) -> Boolean): CharSequence {\n return filterNotTo(StringBuilder(), predicate)\n}\n\n/**\n * Returns a string containing only those characters from the original string that do not match the given [predicate].\n */\npublic inline fun String.filterNot(predicate: (Char) -> Boolean): String {\n return filterNotTo(StringBuilder(), predicate).toString()\n}\n\n/**\n * Appends all characters not matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : Appendable> CharSequence.filterNotTo(destination: C, predicate: (Char) -> Boolean): C {\n for (element in this) if (!predicate(element)) destination.append(element)\n return destination\n}\n\n/**\n * Appends all characters matching the given [predicate] to the given [destination].\n */\npublic inline fun <C : Appendable> CharSequence.filterTo(destination: C, predicate: (Char)
-> Boolean): C {\n for (index in 0 until length) {\n val element = get(index)\n if (predicate(element)) destination.append(element)\n }\n return destination\n}\n\n/**\n * Returns a char sequence containing characters of the original char sequence at the specified range of [indices].\n */\npublic fun CharSequence.slice(indices: IntRange): CharSequence {\n if (indices.isEmpty()) return \"\"\n return subSequence(indices)\n}\n\n/**\n * Returns a string containing characters of the original string at the specified range of [indices].\n */\npublic fun String.slice(indices: IntRange): String {\n if (indices.isEmpty()) return \"\"\n return substring(indices)\n}\n\n/**\n * Returns a char sequence containing characters of the original char sequence at specified [indices].\n */\npublic fun CharSequence.slice(indices: Iterable<Int>): CharSequence {\n val size = indices.collectionSizeOrDefault(10)\n if (size == 0) return \"\"\n val result = StringBuilder(size)\n for (i in indices) {\n result.append(get(i))\n }\n return result\n}\n\n/**\n * Returns a string containing characters of the original string at specified [indices].\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.slice(indices: Iterable<Int>): String {\n return (this as CharSequence).slice(indices).toString()\n}\n\n/**\n * Returns a subsequence of this char sequence containing the first [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun CharSequence.take(n: Int): CharSequence {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n return subSequence(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a string containing the first [n] characters from this string, or the entire string if this string is shorter.\n * \n * @throws IllegalArgumentException
if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun String.take(n: Int): String {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n return substring(0, n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing the last [n] characters from this char sequence, or the entire char sequence if this char sequence is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic fun CharSequence.takeLast(n: Int): CharSequence {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n val length = length\n return subSequence(length - n.coerceAtMost(length), length)\n}\n\n/**\n * Returns a string containing the last [n] characters from this string, or the entire string if this string is shorter.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.text.Strings.take\n */\npublic

fun String.takeLast(n: Int): String {\n require(n >= 0) { \"Requested character count $n is less than zero.\" }\n val length = length\n return substring(length - n.coerceAtMost(length))\n}\n\n/**\n * Returns a subsequence of this char sequence containing last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun CharSequence.takeLastWhile(predicate: (Char) -> Boolean): CharSequence {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return subSequence(index + 1, length)\n }\n }\n return subSequence(0, length)\n}\n\n/**\n * Returns a string containing last characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun String.takeLastWhile(predicate: (Char) -> Boolean): String {\n for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n return substring(index + 1)\n }\n }\n return this\n}\n\n/**\n * Returns a subsequence of this char sequence containing the first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun CharSequence.takeWhile(predicate: (Char) -> Boolean): CharSequence {\n for (index in 0 until length)\n if (!predicate(get(index))) {\n return subSequence(0, index)\n }\n return subSequence(0, length)\n}\n\n/**\n * Returns a string containing the first characters that satisfy the given [predicate].\n * \n * @sample samples.text.Strings.take\n */\npublic inline fun String.takeWhile(predicate: (Char) -> Boolean): String {\n for (index in 0 until length)\n if (!predicate(get(index))) {\n return substring(0, index)\n }\n return this\n}\n\n/**\n * Returns a char sequence with characters in reversed order.\n */\npublic fun CharSequence.reversed(): CharSequence {\n return StringBuilder(this).reverse()\n}\n\n/**\n * Returns a string with characters in reversed order.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.reversed(): String {\n return (this as CharSequence).reversed().toString()\n}\n\n/**\n * Returns a [Map] containing key-value pairs provided by [transform] function\n * applied to characters of the given char sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n */\npublic inline fun <K, V> CharSequence.associate(transform: (Char) -> Pair<K, V>): Map<K, V> {\n val capacity = mapCapacity(length).coerceAtLeast(16)\n return associateTo(LinkedHashMap<K, V>(capacity), transform)\n}\n\n/**\n * Returns a [Map] containing the characters from the given char sequence indexed by the key\n * returned from [keySelector] function applied to each character.\n * \n * If any two characters would have the same key returned by [keySelector] the last
one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n */\npublic inline fun <K> CharSequence.associateBy(keySelector: (Char) -> K): Map<K, Char> {\n val capacity = mapCapacity(length).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, Char>(capacity), keySelector)\n}\n\n/**\n * Returns a [Map] containing the values provided by [valueTransform] and indexed by [keySelector] functions applied to characters of the given char sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n */\npublic inline fun <K, V> CharSequence.associateBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, V> {\n val capacity = mapCapacity(length).coerceAtLeast(16)\n return associateByTo(LinkedHashMap<K, V>(capacity), keySelector, valueTransform)\n}\n\n/**\n
* Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function applied to each character of the given char sequence\n * and value is the character itself.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K, M : MutableMap<in K, in Char>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n destination.put(keySelector(element), element)\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs,\n * where key is provided by the [keySelector] function and\n * and value is provided by the [valueTransform] function applied to characters of the given char sequence.\n * \n * If any two characters would have the same key returned by [keySelector] the last one gets added to the map.\n */\npublic inline fun <K,

V, M : MutableMap<in K, in V>> CharSequence.associateByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n destination.put(keySelector(element), valueTransform(element))\n }\n return destination\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs\n * provided by [transform] function applied to each character of the given char sequence.\n * \n * If any of two pairs would have the same key the last one gets added to the map.\n */\npublic inline fun <K, V, M : MutableMap<in K, in V>> CharSequence.associateTo(destination: M, transform: (Char) -> Pair<K, V>): M {\n for (element in this) {\n destination += transform(element)\n }\n return destination\n}\n\n/**\n * Returns a [Map] where keys are characters from the given char sequence and values are\n * produced by the [valueSelector] function applied to each character.\n * \n * If any two characters are equal, the last one

gets added to the map.\n * \n * The returned map preserves the entry iteration order of the original char sequence.\n * \n * @sample samples.text.Strings.associateWith\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <V> CharSequence.associateWith(valueSelector: (Char) -> V): Map<Char, V> {\n val result = LinkedHashMap<Char, V>(mapCapacity(length).coerceAtLeast(16))\n return associateWithTo(result, valueSelector)\n}\n\n/**\n * Populates and returns the [destination] mutable map with key-value pairs for each character of the given char sequence,\n * where key is the character itself and value is provided by the [valueSelector] function applied to that key.\n * \n * If any two characters are equal, the last one overwrites the former value in the map.\n */\n@SinceKotlin(\"1.3\")\npublic inline fun <V, M : MutableMap<in Char, in V>> CharSequence.associateWithTo(destination: M, valueSelector: (Char) -> V): M {\n for (element in this) {\n destination.put(element, valueSelector(element))\n

}\n return destination\n}\n\n/**\n * Appends all characters to the given [destination] collection.\n */\npublic fun <C : MutableCollection<in Char>> CharSequence.toCollection(destination: C): C {\n for (item in this) {\n destination.add(item)\n }\n return destination\n}\n\n/**\n * Returns a [HashSet] of all characters.\n */\npublic fun CharSequence.toHashSet(): HashSet<Char> {\n return toCollection(HashSet<Char>(mapCapacity(length)))\n}\n\n/**\n * Returns a [List] containing all characters.\n */\npublic fun CharSequence.toList(): List<Char> {\n return when (length) {\n 0 -> emptyList()\n 1 -> listOf(this[0])\n else -> this.toMutableList()\n }\n}\n\n/**\n * Returns a [MutableList] filled with all characters of this char sequence.\n */\npublic fun CharSequence.toMutableList(): MutableList<Char> {\n return toCollection(ArrayList<Char>(length))\n}\n\n/**\n * Returns a [Set] of all characters.\n * \n * The returned set preserves

the element iteration order of the original char sequence.\n */\npublic fun CharSequence.toSet(): Set<Char> {\n return when (length) {\n 0 -> emptySet()\n 1 -> setOf(this[0])\n else -> toCollection(LinkedHashSet<Char>(mapCapacity(length)))\n }\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each character of original char sequence.\n */\npublic inline fun <R> CharSequence.flatMap(transform: (Char) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each character of original char sequence, to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.flatMapTo(destination: C, transform: (Char) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n

* Groups characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each character and returns a map where each group key is associated with a list of corresponding characters.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K> CharSequence.groupBy(keySelector: (Char) -> K): Map<K, List<Char>> {\n return groupByTo(LinkedHashMap<K, MutableList<Char>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each character of the original char sequence\n * by the key returned by the given [keySelector] function applied to the character\n * and returns a map where each group key is associated with

a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original char sequence.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V> CharSequence.groupBy(keySelector: (Char) -> K, valueTransform: (Char) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups characters of the original char sequence by the key returned by the given [keySelector] function\n * applied to each character and puts to the [destination] map each group key associated with a list of corresponding characters.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\npublic inline fun <K, M : MutableMap<in K, MutableList<Char>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<Char>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each character of the original char sequence\n * by the key returned by the given [keySelector] function applied to the character\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> CharSequence.groupByTo(destination: M, keySelector: (Char) -> K, valueTransform: (Char) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Creates a [Grouping] source from a char sequence to be used later with one of group-and-fold operations\n * using the specified [keySelector] function to extract a key from each character.\n * \n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <K> CharSequence.groupingBy(crossinline keySelector: (Char) -> K): Grouping<Char, K> {\n return object : Grouping<Char, K> {\n override fun sourceIterator(): Iterator<Char> = this@groupingBy.iterator()\n override fun keyOf(element: Char): K = keySelector(element)\n }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each character in the original char sequence.\n * \n * @sample samples.text.Strings.map\n */\npublic inline fun <R> CharSequence.map(transform: (Char) -> R): List<R> {\n return mapTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each character and its index in the original char sequence.\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R> CharSequence.mapIndexed(transform: (index: Int, Char) -> R): List<R> {\n return mapIndexedTo(ArrayList<R>(length), transform)\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each character and its index in the original char sequence.\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R : Any> CharSequence.mapIndexedNotNull(transform: (index: Int, Char) -> R?): List<R> {\n return mapIndexedNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each character and its index in the original char sequence\n * and appends only the non-null results to the given [destination].\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapIndexedNotNullTo(destination: C, transform: (index: Int, Char) -> R?): C {\n forEachIndexed { index, element -> transform(index, element)?.let { destination.add(it) } }\n return destination\n}\n\n/**\n * Applies the given [transform] function to each character and its index in the original char sequence\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of a character and the character itself\n * and returns the result of the transform applied to the character.\n */\npublic inline fun <R, C : MutableCollection<in R>>

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CharSequence.mapIndexedTo(destination: C, transform: (index: Int, Char) -> R): C {\n    var index = 0\n    for (item in this)\n        destination.add(transform(index++, item))\n    return destination\n}\n\n/**\n * Returns a list containing only the non-null results of applying the given [transform] function\n * to each character in the original char sequence.\n */\npublic inline fun <R : Any> CharSequence.mapNotNull(transform: (Char) -> R?): List<R> {\n    return mapNotNullTo(ArrayList<R>(), transform)\n}\n\n/**\n * Applies the given [transform] function to each character in the original char sequence\n * and appends only the non-null results to the given [destination].\n */\npublic inline fun <R : Any, C : MutableCollection<in R>> CharSequence.mapNotNullTo(destination: C, transform: (Char) -> R?): C {\n    forEach { element -> transform(element)?.let { destination.add(it) } }\n    return destination\n}\n\n/**\n * Applies the given [transform] function to each character of the original char sequence\n * and appends the results to the given [destination].\n */\npublic inline fun <R, C : MutableCollection<in R>> CharSequence.mapTo(destination: C, transform: (Char) -> R): C {\n    for (item in this)\n        destination.add(transform(item))\n    return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each character of the original char sequence\n * into an [IndexedValue] containing the index of that character and the character itself.\n */\npublic fun CharSequence.withIndex(): Iterable<IndexedValue<Char>> {\n    return IndexingIterable { iterator() }\n}\n\n/**\n * Returns `true` if all characters match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n */\npublic inline fun CharSequence.all(predicate: (Char) -> Boolean): Boolean {\n    for (element in this) if (!predicate(element)) return false\n    return true\n}\n\n/**\n * Returns `true` if char sequence has at least one character.\n * \n * @sample samples.collections.Collections.Aggregates.any\n */\npublic fun CharSequence.any(): Boolean {\n    return !isEmpty()\n}\n\n/**\n * Returns `true` if at least one character matches the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\npublic inline fun CharSequence.any(predicate: (Char) -> Boolean): Boolean {\n    for (element in this) if (predicate(element)) return true\n    return false\n}\n\n/**\n * Returns the length of this char sequence.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.count(): Int {\n    return length\n}\n\n/**\n * Returns the number of characters matching the given [predicate].\n */\npublic inline fun CharSequence.count(predicate: (Char) -> Boolean): Int {\n    var count = 0\n    for (element in this) if (predicate(element)) ++count\n    return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each character.\n */\npublic inline fun <R> CharSequence.fold(initial: R, operation: (acc: R, Char) -> R): R {\n    var accumulator = initial\n    for (element in this) accumulator = operation(accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each character with its index in the original char sequence.\n * @param [operation] function that takes the index of a character, current accumulator value\n * and the character itself, and calculates the next accumulator value.\n */\npublic inline fun <R> CharSequence.foldIndexed(initial: R, operation: (index: Int, acc: R, Char) -> R): R {\n    var index = 0\n    var accumulator = initial\n    for (element in this) accumulator = operation(index++, accumulator, element)\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left to each character and current accumulator value.\n */\npublic inline fun <R> CharSequence.foldRight(initial: R, operation: (Char, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each character with its index in the original char sequence and current accumulator value.\n * @param [operation] function that takes the index of a character, the character itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun <R> CharSequence.foldRightIndexed(initial: R, operation: (index: Int, Char, acc: R) -> R): R {\n    var index = lastIndex\n    var accumulator = initial\n    while (index >= 0) {\n        accumulator = operation(index, get(index), accumulator)\n        --index\n    }\n    return accumulator\n}\n\n/**\n * Performs the given [action] on each character.\n */\npublic inline fun CharSequence.forEach(action: (Char) -> Unit): Unit {\n    for (element in this)
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action(element)\n}\n\n/**\n * Performs the given [action] on each character, providing
 sequential index with the character.\n * @param [action] function that takes the index of a character and the
character itself\n * and performs the desired action on the character.\n */\npublic inline fun
CharSequence.forEachIndexed(action: (index: Int, Char) -> Unit): Unit {\n    var index = 0\n    for (item in this)
action(index++, item)\n}\n\n/**\n * Returns the largest character or `null` if there are no characters.\n */\npublic fun
CharSequence.max(): Char? {\n    if (isEmpty()) return null\n    var max = this[0]\n    for (i in 1..lastIndex) {\n
val e = this[i]\n        if (max < e) max = e\n    }\n    return max\n}\n\n/**\n * Returns the first character yielding the
largest value of the given function or `null` if there are no characters.\n * \n * @sample
samples.collections.Collections.Aggregates.maxBy\n */\npublic inline fun <R : Comparable<R>>
CharSequence.maxBy(selector: (Char) -> R): Char? {\n    if (isEmpty()) return null\n    var maxElem = this[0]\n
val lastIndex
 = this.lastIndex\n    if (lastIndex == 0) return maxElem\n    var maxValue = selector(maxElem)\n    for (i in
1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (maxValue < v) {\n            maxElem = e\n
 maxValue = v\n        }\n    }\n    return maxElem\n}\n\n/**\n * Returns the first character having the largest value
according to the provided [comparator] or `null` if there are no characters.\n */\npublic fun
CharSequence.maxWith(comparator: Comparator<in Char>): Char? {\n    if (isEmpty()) return null\n    var max =
this[0]\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        if (comparator.compare(max, e) < 0) max = e\n    }\n
return max\n}\n\n/**\n * Returns the smallest character or `null` if there are no characters.\n */\npublic fun
CharSequence.min(): Char? {\n    if (isEmpty()) return null\n    var min = this[0]\n    for (i in 1..lastIndex) {\n
val e = this[i]\n        if (min > e) min = e\n    }\n    return
 min\n}\n\n/**\n * Returns the first character yielding the smallest value of the given function or `null` if there are
no characters.\n * \n * @sample samples.collections.Collections.Aggregates.minBy\n */\npublic inline fun <R :
Comparable<R>> CharSequence.minBy(selector: (Char) -> R): Char? {\n    if (isEmpty()) return null\n    var
minElem = this[0]\n    val lastIndex = this.lastIndex\n    if (lastIndex == 0) return minElem\n    var minValue =
selector(minElem)\n    for (i in 1..lastIndex) {\n        val e = this[i]\n        val v = selector(e)\n        if (minValue > v)
{\n            minElem = e\n            minValue = v\n        }\n    }\n    return minElem\n}\n\n/**\n * Returns the first
character having the smallest value according to the provided [comparator] or `null` if there are no characters.\n
*/\npublic fun CharSequence.minWith(comparator: Comparator<in Char>): Char? {\n    if (isEmpty()) return null\n
var min = this[0]\n    for (i in 1..lastIndex) {\n        val e =
 this[i]\n        if (comparator.compare(min, e) > 0) min = e\n    }\n    return min\n}\n\n/**\n * Returns `true` if the
char sequence has no characters.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\npublic
fun CharSequence.none(): Boolean {\n    return isEmpty()\n}\n\n/**\n * Returns `true` if no characters match the
given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\npublic
inline fun CharSequence.none(predicate: (Char) -> Boolean): Boolean {\n    for (element in this) if
(predicate(element)) return false\n    return true\n}\n\n/**\n * Performs the given [action] on each character and
returns the char sequence itself afterwards.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <S : CharSequence>
S.onEach(action: (Char) -> Unit): S {\n    return apply { for (element in this) action(element) }\n}\n\n/**\n *
Accumulates value starting with the first character and applying [operation] from left to right to current accumulator
 value and each character.\n */\npublic inline fun CharSequence.reduce(operation: (acc: Char, Char) -> Char): Char
{\n    if (isEmpty())\n        throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n
var accumulator = this[0]\n    for (index in 1..lastIndex) {\n        accumulator = operation(accumulator, this[index])\n
 }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with the first character and applying [operation]
from left to right\n * to current accumulator value and each character with its index in the original char sequence.\n
* @param [operation] function that takes the index of a character, current accumulator value\n * and the character
itself and calculates the next accumulator value.\n */\npublic inline fun CharSequence.reduceIndexed(operation:
(index: Int, acc: Char, Char) -> Char): Char {\n    if (isEmpty())\n        throw
UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n    var accumulator
```

= this[0]\n   for (index in 1..lastIndex) {\n   accumulator = operation(index, accumulator, this[index])\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last character and applying [operation] from right to left to each character and current accumulator value.\n */\npublic inline fun CharSequence.reduceRight(operation: (Char, acc: Char) -> Char): Char {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(get(index--), accumulator)\n   }\n   return accumulator\n}\n\n/**\n * Accumulates value starting with last character and applying [operation] from right to left\n * to each character with its index in the original char sequence and current accumulator value.\n * @param [operation] function that takes the index of a character, the character itself\n * and current accumulator value, and calculates the next accumulator value.\n */\npublic inline fun CharSequence.reduceRightIndexed(operation: (index: Int, Char, acc: Char) -> Char): Char {\n   var index = lastIndex\n   if (index < 0) throw UnsupportedOperationException(\"Empty char sequence can't be reduced.\")\n   var accumulator = get(index--)\n   while (index >= 0) {\n   accumulator = operation(index, get(index), accumulator)\n   --index\n   }\n   return accumulator\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n */\npublic inline fun CharSequence.sumBy(selector: (Char) -> Int): Int {\n   var sum: Int = 0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each character in the char sequence.\n */\npublic inline fun CharSequence.sumByDouble(selector: (Char) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Splits this char sequence into a list of strings each not exceeding the given [size].\n * \n * The last string in the resulting list may have less characters than the given [size].\n * \n * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.chunked(size: Int): List<String> {\n   return windowed(size, size, partialWindows = true)\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return list of results of the [transform] applied to an each char sequence.\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last char sequence may have less characters than the given [size].\n * \n * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.text.Strings.chunkedTransform\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.chunked(size: Int, transform: (CharSequence) -> R): List<R> {\n   return windowed(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Splits this char sequence into a sequence of strings each not exceeding the given [size].\n * \n * The last string in the resulting sequence may have less characters than the given [size].\n * \n * @param size the number of elements to take in each string, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.collections.Collections.Transformations.chunked\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.chunkedSequence(size: Int): Sequence<String> {\n   return chunkedSequence(size) { it.toString() }\n}\n\n/**\n * Splits this char sequence into several char sequences each not exceeding the given [size]\n * and applies the given [transform] function to an each.\n * \n * @return sequence of results of the [transform] applied to an each char sequence.\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * The last char sequence may have less characters than the given [size].\n * \n * @param size the number of elements to take in each char sequence, must be positive and can be greater than the number of elements in this char sequence.\n * \n * @sample samples.text.Strings.chunkedTransformToSequence\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.chunkedSequence(size: Int, transform: (CharSequence) -> R): Sequence<R> {\n   return windowedSequence(size, size, partialWindows = true, transform = transform)\n}\n\n/**\n * Splits the original char

sequence into pair of char sequences,\n * where *first* char sequence contains characters for which [predicate] yielded `true`,\n * while *second* char sequence contains characters for which [predicate] yielded `false`.\n */\npublic inline fun CharSequence.partition(predicate: (Char) -> Boolean): Pair<CharSequence, CharSequence> {\n val first = StringBuilder()\n val second = StringBuilder()\n for (element in this) {\n if (predicate(element)) {\n first.append(element)\n } else {\n second.append(element)\n }\n }\n return Pair(first, second)\n}\n\n/**\n * Splits the original string into pair of strings,\n * where *first* string contains characters for which [predicate] yielded `true`,\n * while *second*
string contains characters for which [predicate] yielded `false`.\n */\npublic inline fun String.partition(predicate: (Char) -> Boolean): Pair<String, String> {\n val first = StringBuilder()\n val second = StringBuilder()\n for (element in this) {\n if (predicate(element)) {\n first.append(element)\n } else {\n second.append(element)\n }\n }\n return Pair(first.toString(), second.toString())\n}\n\n/**\n * Returns a list of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * \n * Several last strings may have less characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows
controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false): List<String> {\n return windowed(size, step, partialWindows) { it.toString() }\n}\n\n/**\n * Returns a list of results of applying the given [transform] function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this char sequence with the given [step].\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last char sequences may have less characters than the given [size].\n * \n * Both [size] and [step] must be
positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.windowed(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): List<R> {\n checkWindowSizeStep(size, step)\n val thisSize = this.length\n val resultCapacity = thisSize / step + if (thisSize % step == 0) 0 else 1\n val result = ArrayList<R>(resultCapacity)\n var index = 0\n while (index in 0 until thisSize) {\n val end = index + size\n val coercedEnd = if (end < 0 || end > thisSize) { if (partialWindows)
thisSize else break } else end\n result.add(transform(subSequence(index, coercedEnd)))\n index += step\n }\n return result\n}\n\n/**\n * Returns a sequence of snapshots of the window of the given [size]\n * sliding along this char sequence with the given [step], where each\n * snapshot is a string.\n * \n * Several last strings may have less characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.takeWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun CharSequence.windowedSequence(size:
Int, step: Int = 1, partialWindows: Boolean = false): Sequence<String> {\n return windowedSequence(size, step, partialWindows) { it.toString() }\n}\n\n/**\n * Returns a sequence of results of applying the given [transform] function to\n * an each char sequence representing a view over the window of the given [size]\n * sliding along this

char sequence with the given [step].\n * \n * Note that the char sequence passed to the [transform] function is ephemeral and is valid only inside that function.\n * You should not store it or allow it to escape in some way, unless you made a snapshot of it.\n * Several last char sequences may have less characters than the given [size].\n * \n * Both [size] and [step] must be positive and can be greater than the number of elements in this char sequence.\n * @param size the number of elements to take in each window\n * @param step the number of elements to move the window forward by on an each step, by default 1\n * @param partialWindows controls
whether or not to keep partial windows in the end if any,\n * by default `false` which means partial windows won't be preserved\n * \n * @sample samples.collections.Sequences.Transformations.averageWindows\n */\n@SinceKotlin(\"1.2\")\npublic fun <R> CharSequence.windowedSequence(size: Int, step: Int = 1, partialWindows: Boolean = false, transform: (CharSequence) -> R): Sequence<R> {\n checkWindowSizeStep(size, step)\n val windows = (if (partialWindows) indices else 0 until length - size + 1) step step\n return windows.asSequence().map { index ->\n val end = index + size\n val coercedEnd = if (end < 0 || end > length) length else end\n transform(subSequence(index, coercedEnd))\n }\n}\n\n/**\n * Returns a list of pairs built from the characters of `this` and the [other] char sequences with the same index\n * The returned list has length of the shortest char sequence.\n * \n * @sample samples.text.Strings.zip\n */\npublic infix fun CharSequence.zip(other:
CharSequence): List<Pair<Char, Char>> {\n return zip(other) { c1, c2 -> c1 to c2 }\n}\n\n/**\n * Returns a list of values built from the characters of `this` and the [other] char sequences with the same index\n * using the provided [transform] function applied to each pair of characters.\n * The returned list has length of the shortest char sequence.\n * \n * @sample samples.text.Strings.zipWithTransform\n */\npublic inline fun <V> CharSequence.zip(other: CharSequence, transform: (a: Char, b: Char) -> V): List<V> {\n val length = minOf(this.length, other.length)\n val list = ArrayList<V>(length)\n for (i in 0 until length) {\n list.add(transform(this[i], other[i]))\n }\n return list\n}\n\n/**\n * Returns a list of pairs of each two adjacent characters in this char sequence.\n * \n * The returned list is empty if this char sequence contains less than two characters.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNext\n */\n@SinceKotlin(\"1.2\")\npublic
fun CharSequence.zipWithNext(): List<Pair<Char, Char>> {\n return zipWithNext { a, b -> a to b }\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to an each pair of two adjacent characters in this char sequence.\n * \n * The returned list is empty if this char sequence contains less than two characters.\n * \n * @sample samples.collections.Collections.Transformations.zipWithNextToFindDeltas\n */\n@SinceKotlin(\"1.2\")\npublic inline fun <R> CharSequence.zipWithNext(transform: (a: Char, b: Char) -> R): List<R> {\n val size = length - 1\n if (size < 1) return emptyList()\n val result = ArrayList<R>(size)\n for (index in 0 until size) {\n result.add(transform(this[index], this[index + 1]))\n }\n return result\n}\n\n/**\n * Creates an [Iterable] instance that wraps the original char sequence returning its characters when being iterated.\n */\npublic fun CharSequence.asIterable(): Iterable<Char>
{\n if (this is String && isEmpty()) return emptyList()\n return Iterable { this.iterator() }\n}\n\n/**\n * Creates a [Sequence] instance that wraps the original char sequence returning its characters when being iterated.\n */\npublic fun CharSequence.asSequence(): Sequence<Char> {\n if (this is String && isEmpty()) return emptySequence()\n return Sequence { this.iterator() }\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\nimport kotlin.contracts.contract\n\n/**\n * Returns a sub sequence of this char sequence having leading and trailing characters matching the [predicate] removed.\n */\npublic inline fun CharSequence.trim(predicate: (Char) -> Boolean): CharSequence {\n var startIndex = 0\n var
endIndex = length - 1\n var startFound = false\n\n while (startIndex <= endIndex) {\n val index = if (!startFound) startIndex else endIndex\n val match = predicate(this[index])\n\n if (!startFound) {\n if (!match)\n startFound = true\n else\n startIndex += 1\n } else {\n if (!match)\n

break\n else\n endIndex -= 1\n }\n }\n\n return subSequence(startIndex, endIndex + 1)\n}\n\n/**\n * Returns a string having leading and trailing characters matching the [predicate] removed.\n */\npublic inline fun String.trim(predicate: (Char) -> Boolean): String =\n (this as CharSequence).trim(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading characters matching the [predicate] removed.\n */\npublic inline fun CharSequence.trimStart(predicate: (Char) -> Boolean): CharSequence {\n for (index in this.indices)\n if (!predicate(this[index]))\n return subSequence(index, length)\n\n return \"\"\n}\n\n/**\n * Returns a string having leading characters matching the [predicate] removed.\n */\npublic inline fun String.trimStart(predicate: (Char) -> Boolean): String =\n (this as CharSequence).trimStart(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having trailing characters matching the [predicate] removed.\n */\npublic inline fun CharSequence.trimEnd(predicate: (Char) -> Boolean): CharSequence {\n for (index in this.indices.reversed())\n if (!predicate(this[index]))\n return subSequence(0, index + 1)\n\n return \"\"\n}\n\n/**\n * Returns a string having trailing characters matching the [predicate] removed.\n */\npublic inline fun String.trimEnd(predicate: (Char) -> Boolean): String =\n (this as CharSequence).trimEnd(predicate).toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading and trailing
characters from the [chars] array removed.\n */\npublic fun CharSequence.trim(vararg chars: Char): CharSequence = trim { it in chars }\n\n/**\n * Returns a string having leading and trailing characters from the [chars] array removed.\n */\npublic fun String.trim(vararg chars: Char): String = trim { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having leading characters from the [chars] array removed.\n */\npublic fun CharSequence.trimStart(vararg chars: Char): CharSequence = trimStart { it in chars }\n\n/**\n * Returns a string having leading characters from the [chars] array removed.\n */\npublic fun String.trimStart(vararg chars: Char): String = trimStart { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having trailing characters from the [chars] array removed.\n */\npublic fun CharSequence.trimEnd(vararg chars: Char): CharSequence = trimEnd { it in chars }\n\n/**\n * Returns a string having trailing characters from the [chars] array
removed.\n */\npublic fun String.trimEnd(vararg chars: Char): String = trimEnd { it in chars }\n\n/**\n * Returns a sub sequence of this char sequence having leading and trailing whitespace removed.\n */\npublic fun CharSequence.trim(): CharSequence = trim(Char::isWhitespace)\n\n/**\n * Returns a string having leading and trailing whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.trim(): String = (this as CharSequence).trim().toString()\n\n/**\n * Returns a sub sequence of this char sequence having leading whitespace removed.\n */\npublic fun CharSequence.trimStart(): CharSequence = trimStart(Char::isWhitespace)\n\n/**\n * Returns a string having leading whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.trimStart(): String = (this as CharSequence).trimStart().toString()\n\n/**\n * Returns a sub sequence of this char sequence having trailing whitespace removed.\n */\npublic fun CharSequence.trimEnd(): CharSequence = trimEnd(Char::isWhitespace)\n\n/**\n
* Returns a string having trailing whitespace removed.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.trimEnd(): String = (this as CharSequence).trimEnd().toString()\n\n/**\n * Returns a char sequence with content of this char sequence padded at the beginning\n * to the specified [length] with the specified character or space.\n *\n * @param length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a char sequence of length at least [length] consisting of `this` char sequence prepended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample samples.text.Strings.padStart\n */\npublic fun CharSequence.padStart(length: Int, padChar: Char = ' '): CharSequence {\n if (length < 0)\n throw IllegalArgumentException(\"Desired length $length is less than zero.\")\n if (length <= this.length)\n return this.subSequence(0, this.length)\n\n val sb = StringBuilder(length)\n for (i in 1..(length - this.length))\n sb.append(padChar)\n sb.append(this)\n return sb\n}\n\n/**\n * Pads the string to the specified [length] at the beginning with the specified character or space.\n *\n * @param length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length] consisting of `this` string prepended with

[padChar] as many times\n * as are necessary to reach that length.\n * @sample samples.text.Strings.padStart\n */\npublic fun String.padStart(length: Int, padChar: Char = ' '): String =\n   (this as CharSequence).padStart(length, padChar).toString()\n\n/**\n * Returns a char sequence with content of this char sequence padded at the end\n * to the specified [length] with the specified character or space.\n *\n
 * @param length the desired string length.\n * @param padChar the character to pad string with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a char sequence of length at least [length] consisting of `this` char sequence appended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample samples.text.Strings.padEnd\n */\npublic fun CharSequence.padEnd(length: Int, padChar: Char = ' '): CharSequence {\n   if (length < 0)\n   throw IllegalArgumentException(\"Desired length $length is less than zero.\")\n   if (length <= this.length)\n   return this.subSequence(0, this.length)\n\n   val sb = StringBuilder(length)\n   sb.append(this)\n   for (i in 1..(length - this.length))\n   sb.append(padChar)\n   return sb\n}\n\n/**\n * Pads the string to the specified [length] at the end with the specified character or space.\n *\n * @param length the desired string length.\n * @param padChar the character
 to pad string with, if it has length less than the [length] specified. Space is used by default.\n * @return Returns a string of length at least [length] consisting of `this` string appended with [padChar] as many times\n * as are necessary to reach that length.\n * @sample samples.text.Strings.padEnd\n */\npublic fun String.padEnd(length: Int, padChar: Char = ' '): String =\n   (this as CharSequence).padEnd(length, padChar).toString()\n\n/**\n * Returns `true` if this nullable char sequence is either `null` or empty.\n *\n * @sample samples.text.Strings.stringIsNullOrEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence?.isNullOrEmpty(): Boolean {\n   contract {\n   returns(false) implies (this@isNullOrEmpty != null)\n   }\n\n   return this == null || this.length == 0\n}\n\n/**\n * Returns `true` if this char sequence is empty (contains no characters).\n *\n * @sample samples.text.Strings.stringIsEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isEmpty():
 Boolean = length == 0\n\n/**\n * Returns `true` if this char sequence is not empty.\n *\n * @sample samples.text.Strings.stringIsNotEmpty\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isNotEmpty(): Boolean = length > 0\n\n// implemented differently in JVM and JS\n//public fun String.isBlank(): Boolean = length() == 0 || all { it.isWhitespace() }\n\n/**\n * Returns `true` if this char sequence is not empty and contains some characters except of whitespace characters.\n *\n * @sample samples.text.Strings.stringIsNotBlank\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.isNotBlank(): Boolean = !isBlank()\n\n/**\n * Returns `true` if this nullable char sequence is either `null` or empty or consists solely of whitespace characters.\n *\n * @sample samples.text.Strings.stringIsNullOrBlank\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence?.isNullOrBlank(): Boolean {\n   contract {\n   returns(false) implies (this@isNullOrBlank
 != null)\n   }\n\n   return this == null || this.isBlank()\n}\n\n/**\n * Iterator for characters of the given char sequence.\n */\npublic operator fun CharSequence.iterator(): CharIterator = object : CharIterator() {\n   private var index = 0\n\n   public override fun nextChar(): Char = get(index++)\n\n   public override fun hasNext(): Boolean = index < length\n}\n\n/** Returns the string if it is not `null`, or the empty string otherwise.
 */\n@kotlin.internal.InlineOnly\npublic inline fun String?.orEmpty(): String = this ?: \"\"\n\n/**\n * Returns this char sequence if it's not empty\n * or the result of calling [defaultValue] function if the char sequence is empty.\n *\n * @sample samples.text.Strings.stringIfEmpty\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : CharSequence, C : R =\n   if (isEmpty()) defaultValue() else this\n\n/**\n * Returns this char sequence if it is not empty
 and doesn't consist solely of whitespace characters,\n * or the result of calling [defaultValue] function otherwise.\n *\n * @sample samples.text.Strings.stringIfBlank\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun <C, R> C.ifBlank(defaultValue: () -> R): R where C : CharSequence, C : R =\n   if (isBlank()) defaultValue() else this\n\n/**\n * Returns the range of valid character indices for this char sequence.\n */\npublic val CharSequence.indices: IntRange\n   get() = 0..length - 1\n\n/**\n * Returns the index of the last character in the

char sequence or -1 if it is empty.\n */\npublic val CharSequence.lastIndex: Int\n get() = this.length - 1\n\n/**\n * Returns `true` if this CharSequence has Unicode surrogate pair at the specified [index].\n */\npublic fun CharSequence.hasSurrogatePairAt(index: Int): Boolean {\n return index in 0..length - 2\n && this[index].isHighSurrogate()\n && this[index + 1].isLowSurrogate()\n}\n\n/**\n * Returns a substring specified by the given [range] of indices.\n */\npublic fun String.substring(range: IntRange): String = substring(range.start, range.endInclusive + 1)\n\n/**\n * Returns a subsequence of this char sequence specified by the given [range] of indices.\n */\npublic fun CharSequence.subSequence(range: IntRange): CharSequence = subSequence(range.start, range.endInclusive + 1)\n\n/**\n * Returns a subsequence of this char sequence.\n *\n * This extension is chosen only for invocation with old-named parameters.\n * Replace parameter names with the same as those of [CharSequence.subSequence].\n */\n@kotlin.internal.InlineOnly\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\") // false warning\n@Deprecated(\"Use parameters named startIndex and endIndex.\", ReplaceWith(\"subSequence(startIndex = start, endIndex = end)\"))\npublic inline fun String.subSequence(start: Int, end: Int): CharSequence = subSequence(start, end)\n\n/**\n * Returns a substring of chars from a range of this char sequence starting at the [startIndex] and ending right before the [endIndex].\n *\n * @param startIndex the start index (inclusive).\n * @param endIndex the end index (exclusive). If not specified, the length of the char sequence is used.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.substring(startIndex: Int, endIndex: Int = length): String = subSequence(startIndex, endIndex).toString()\n\n/**\n * Returns a substring of chars at indices from the specified [range] of this char sequence.\n */\npublic fun CharSequence.substring(range: IntRange): String = subSequence(range.start, range.endInclusive + 1).toString()\n\n/**\n * Returns a substring before the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringBefore(delimiter: Char, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring before the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringBefore(delimiter: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring after the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringAfter(delimiter: Char, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(index + 1, length)\n}\n\n/**\n * Returns a substring after the first occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringAfter(delimiter: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(index + delimiter.length, length)\n}\n\n/**\n * Returns a substring before the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringBeforeLast(delimiter: Char, missingDelimiterValue: String = this): String {\n val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring before the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringBeforeLast(delimiter: String, missingDelimiterValue: String = this): String {\n val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(0, index)\n}\n\n/**\n * Returns a substring after the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.substringAfterLast(delimiter: Char, missingDelimiterValue: String = this): String {\n val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else substring(index + 1, length)\n}\n\n/**\n * Returns a substring after the last occurrence of [delimiter].\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n

*/\npublic fun String.substringAfterLast(delimiter: String, missingDelimiterValue: String = this): String {\n   val index = lastIndexOf(delimiter)\n   return if (index == -1) missingDelimiterValue
 else substring(index + delimiter.length, length)\n}\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the given range\n * is replaced with the [replacement] char sequence.\n * @param startIndex the index of the first character to be replaced.\n * @param endIndex the index of the first character after the replacement to keep in the string.\n */\npublic fun CharSequence.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): CharSequence {\n   if (endIndex < startIndex)\n   throw IndexOutOfBoundsException(\"End index ($endIndex) is less than start index ($startIndex).\")\n   val sb = StringBuilder()\n   sb.append(this, 0, startIndex)\n   sb.append(replacement)\n   sb.append(this, endIndex, length)\n   return sb\n}\n\n/**\n * Replaces the part of the string at the given range with the [replacement] char sequence.\n * @param startIndex the index of the first character to be replaced.\n * @param endIndex the
 index of the first character after the replacement to keep in the string.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceRange(startIndex: Int, endIndex: Int, replacement: CharSequence): String =\n   (this as CharSequence).replaceRange(startIndex, endIndex, replacement).toString()\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the given [range]\n * is replaced with the [replacement] char sequence.\n *\n * The end index of the [range] is included in the part to be replaced.\n */\npublic fun CharSequence.replaceRange(range: IntRange, replacement: CharSequence): CharSequence =\n replaceRange(range.start, range.endInclusive + 1, replacement)\n\n/**\n * Replace the part of string at the given [range] with the [replacement] string.\n *\n * The end index of the [range] is included in the part to be replaced.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.replaceRange(range: IntRange, replacement: CharSequence): String
 =\n   (this as CharSequence).replaceRange(range, replacement).toString()\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the given range is removed.\n *\n * @param startIndex the index of the first character to be removed.\n * @param endIndex the index of the first character after the removed part to keep in the string.\n *\n * [endIndex] is not included in the removed part.\n */\npublic fun CharSequence.removeRange(startIndex: Int, endIndex: Int): CharSequence {\n   if (endIndex < startIndex)\n throw IndexOutOfBoundsException(\"End index ($endIndex) is less than start index ($startIndex).\")\n\n   if (endIndex == startIndex)\n   return this.subSequence(0, length)\n\n   val sb = StringBuilder(length - (endIndex - startIndex))\n   sb.append(this, 0, startIndex)\n   sb.append(this, endIndex, length)\n   return sb\n}\n\n/**\n * Removes the part of a string at a given range.\n * @param startIndex the index of the first character
 to be removed.\n * @param endIndex the index of the first character after the removed part to keep in the string.\n *\n * [endIndex] is not included in the removed part.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.removeRange(startIndex: Int, endIndex: Int): String =\n   (this as CharSequence).removeRange(startIndex, endIndex).toString()\n\n/**\n * Returns a char sequence with content of this char sequence where its part at the given [range] is removed.\n *\n * The end index of the [range] is included in the removed part.\n */\npublic fun CharSequence.removeRange(range: IntRange): CharSequence = removeRange(range.start, range.endInclusive + 1)\n\n/**\n * Removes the part of a string at the given [range].\n *\n * The end index of the [range] is included in the removed part.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.removeRange(range: IntRange): String =\n   (this as CharSequence).removeRange(range).toString()\n\n/**\n * If this char sequence starts
 with the given [prefix], returns a new char sequence\n * with the prefix removed. Otherwise, returns a new char sequence with the same characters.\n */\npublic fun CharSequence.removePrefix(prefix: CharSequence): CharSequence {\n   if (startsWith(prefix)) {\n   return subSequence(prefix.length, length)\n   }\n   return subSequence(0, length)\n}\n\n/**\n * If this string starts with the given [prefix], returns a copy of this string\n * with the prefix removed. Otherwise, returns this string.\n */\npublic fun String.removePrefix(prefix: CharSequence): String {\n   if (startsWith(prefix)) {\n   return substring(prefix.length)\n   }\n   return this\n}\n\n/**\n * If this char sequence ends with the given [suffix], returns a new char sequence\n * with the suffix removed. Otherwise, returns a new char sequence with the same characters.\n */\npublic fun CharSequence.removeSuffix(suffix: CharSequence): CharSequence {\n   if (endsWith(suffix)) {\n   return subSequence(0, length

- suffix.length)\n }\n return subSequence(0, length)\n}\n\n/**\n * If this string ends with the given [suffix], returns a copy of this string\n * with the suffix removed. Otherwise, returns this string.\n */\npublic fun String.removeSuffix(suffix: CharSequence): String {\n if (endsWith(suffix)) {\n return substring(0, length - suffix.length)\n }\n return this\n}\n\n/**\n * When this char sequence starts with the given [prefix] and ends with the given [suffix],\n * returns a new char sequence having both the given [prefix] and [suffix] removed.\n * Otherwise returns a new char sequence with the same characters.\n */\npublic fun CharSequence.removeSurrounding(prefix: CharSequence, suffix: CharSequence): CharSequence {\n if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n return subSequence(prefix.length, length - suffix.length)\n }\n return subSequence(0, length)\n}\n\n/**\n * Removes from a string both the
given [prefix] and [suffix] if and only if\n * it starts with the [prefix] and ends with the [suffix].\n * Otherwise returns this string unchanged.\n */\npublic fun String.removeSurrounding(prefix: CharSequence, suffix: CharSequence): String {\n if ((length >= prefix.length + suffix.length) && startsWith(prefix) && endsWith(suffix)) {\n return substring(prefix.length, length - suffix.length)\n }\n return this\n}\n\n/**\n * When this char sequence starts with and ends with the given [delimiter],\n * returns a new char sequence having this [delimiter] removed both from the start and end.\n * Otherwise returns a new char sequence with the same characters.\n */\npublic fun CharSequence.removeSurrounding(delimiter: CharSequence): CharSequence = removeSurrounding(delimiter, delimiter)\n\n/**\n * Removes the given [delimiter] string from both the start and the end of this string\n * if and only if it starts with and ends with the [delimiter].\n * Otherwise returns this string
unchanged.\n */\npublic fun String.removeSurrounding(delimiter: CharSequence): String = removeSurrounding(delimiter, delimiter)\n\n/**\n * Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceBefore(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/**\n * Replace part of string before the first occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceBefore(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n
return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/**\n * Replace part of string after the first occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceAfter(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n}\n\n/**\n * Replace part of string after the first occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceAfter(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n val index = indexOf(delimiter)\n
return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\n}\n\n/**\n * Replace part of string after the last occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceAfterLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(index + delimiter.length, length, replacement)\n}\n\n/**\n * Replace part of string after the last occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceAfterLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n val

index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(index + 1, length, replacement)\n}\n\n/**\n * Replace part of string before the last occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceBeforeLast(delimiter: Char, replacement: String, missingDelimiterValue: String = this): String {\n val index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n/**\n * Replace part of string before the last occurrence of given delimiter with the [replacement] string.\n * If the string does not contain the delimiter, returns [missingDelimiterValue] which defaults to the original string.\n */\npublic fun String.replaceBeforeLast(delimiter: String, replacement: String, missingDelimiterValue: String = this): String {\n val
index = lastIndexOf(delimiter)\n return if (index == -1) missingDelimiterValue else replaceRange(0, index, replacement)\n}\n\n\n// public fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean): String // JVM- and JS-specific\n// public fun String.replace(oldValue: String, newValue: String, ignoreCase: Boolean): String // JVM- and JS-specific\n\n/**\n * Returns a new string obtained by replacing each substring of this char sequence that matches the given regular expression\n * with the given [replacement].\n *\n * The [replacement] can consist of any combination of literal text and $-substitutions. To treat the replacement string\n * literally escape it with the [kotlin.text.Regex.Companion.escapeReplacement] method.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, replacement: String): String = regex.replace(this, replacement)\n\n/**\n * Returns a new string obtained by replacing each substring of this char sequence that matches
the given regular expression\n * with the result of the given function [transform] that takes [MatchResult] and returns a string to be used as a\n * replacement for that match.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replace(regex: Regex, noinline transform: (MatchResult) -> CharSequence): String =\n regex.replace(this, transform)\n\n/**\n * Replaces the first occurrence of the given regular expression [regex] in this char sequence with specified [replacement] expression.\n *\n * @param replacement A replacement expression that can include substitutions. See [Regex.replaceFirst] for details.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.replaceFirst(regex: Regex, replacement: String): String = regex.replaceFirst(this, replacement)\n\n\n/**\n * Returns `true` if this char sequence matches the given regular expression.\n */\n@kotlin.internal.InlineOnly\npublic inline infix fun CharSequence.matches(regex: Regex): Boolean = regex.matches(this)\n\n/**\n
* Implementation of [regionMatches] for CharSequences.\n * Invoked when it's already known that arguments are not Strings, so that no additional type checks are performed.\n */\ninternal fun CharSequence.regionMatchesImpl(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int, ignoreCase: Boolean): Boolean {\n if ((otherOffset < 0) || (thisOffset < 0) || (thisOffset > this.length - length) || (otherOffset > other.length - length)) {\n return false\n }\n\n for (index in 0 until length) {\n if (!this[thisOffset + index].equals(other[otherOffset + index], ignoreCase))\n return false\n }\n return true\n}\n\n/**\n * Returns `true` if this char sequence starts with the specified character.\n */\npublic fun CharSequence.startsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n this.length > 0 && this[0].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence ends with the specified character.\n */\npublic
fun CharSequence.endsWith(char: Char, ignoreCase: Boolean = false): Boolean =\n this.length > 0 && this[lastIndex].equals(char, ignoreCase)\n\n/**\n * Returns `true` if this char sequence starts with the specified prefix.\n */\npublic fun CharSequence.startsWith(prefix: CharSequence, ignoreCase: Boolean = false): Boolean {\n if (!ignoreCase && this is String && prefix is String)\n return this.startsWith(prefix)\n else\n return regionMatchesImpl(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if a substring of this char sequence starting at the specified offset [startIndex] starts with the specified prefix.\n */\npublic fun CharSequence.startsWith(prefix: CharSequence, startIndex: Int, ignoreCase: Boolean = false): Boolean {\n if (!ignoreCase && this is String && prefix is String)\n return this.startsWith(prefix, startIndex)\n else\n return regionMatchesImpl(startIndex, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n

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 * Returns `true` if this char sequence ends with the specified suffix.\n */\npublic fun
CharSequence.endsWith(suffix: CharSequence, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase &&
this is String && suffix is String)\n        return this.endsWith(suffix)\n    else\n        return regionMatchesImpl(length
- suffix.length, suffix, 0, suffix.length, ignoreCase)\n}\n\n\n// common prefix and suffix\n\n/**\n * Returns the
longest string `prefix` such that this char sequence and [other] char sequence both start with this prefix,\n * taking
care not to split surrogate pairs.\n * If this and [other] have no common prefix, returns the empty string.\n\n *
@param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @sample
samples.text.Strings.commonPrefixWith\n */\npublic fun CharSequence.commonPrefixWith(other: CharSequence,
ignoreCase: Boolean = false): String {\n    val shortestLength = minOf(this.length, other.length)\n\n    var i =
0\n    while (i < shortestLength && this[i].equals(other[i], ignoreCase = ignoreCase)) {\n        i++\n    }\n    if
(this.hasSurrogatePairAt(i - 1) || other.hasSurrogatePairAt(i - 1)) {\n        i--\n    }\n    return subSequence(0,
i).toString()\n}\n\n/**\n * Returns the longest string `suffix` such that this char sequence and [other] char sequence
both end with this suffix,\n * taking care not to split surrogate pairs.\n * If this and [other] have no common suffix,
returns the empty string.\n\n * @param ignoreCase `true` to ignore character case when matching a character. By
default `false`.\n * @sample samples.text.Strings.commonSuffixWith\n */\npublic fun
CharSequence.commonSuffixWith(other: CharSequence, ignoreCase: Boolean = false): String {\n    val thisLength
= this.length\n    val otherLength = other.length\n    val shortestLength = minOf(thisLength, otherLength)\n\n    var i
= 0\n    while (i < shortestLength && this[thisLength - i - 1].equals(other[otherLength - i - 1], ignoreCase
= ignoreCase)) {\n        i++\n    }\n    if (this.hasSurrogatePairAt(thisLength - i - 1) ||
other.hasSurrogatePairAt(otherLength - i - 1)) {\n        i--\n    }\n    return subSequence(thisLength - i,
thisLength).toString()\n}\n\n\n// indexOfAny()\n\n/**\n * Finds the index of the first occurrence of any of the
specified [chars] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the
case.\n *\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n *
@return An index of the first occurrence of matched character from [chars] or -1 if none of [chars] are found.\n *\n
*/\npublic fun CharSequence.indexOfAny(chars: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false): Int
{\n    if (!ignoreCase && chars.size == 1 && this is String) {\n        val char = chars.single()\n        return
nativeIndexOf(char, startIndex)\n    }\n\n    for (index in startIndex.coerceAtLeast(0)..lastIndex) {\n
val charAtIndex = get(index)\n        if (chars.any { it.equals(charAtIndex, ignoreCase) })\n            return index\n
}\n    return -1\n}\n\n/**\n * Finds the index of the last occurrence of any of the specified [chars] in this char
sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param startIndex
The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n *
@param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @return An
index of the last occurrence of matched character from [chars] or -1 if none of [chars] are found.\n *\n */\npublic fun
CharSequence.lastIndexOfAny(chars: CharArray, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n
if (!ignoreCase && chars.size == 1 && this is String) {\n        val char = chars.single()\n        return
nativeLastIndexOf(char, startIndex)\n    }\n\n\n    for (index in startIndex.coerceAtMost(lastIndex)
downTo 0) {\n        val charAtIndex = get(index)\n        if (chars.any { it.equals(charAtIndex, ignoreCase) })\n
return index\n    }\n\n    return -1\n}\n\n\nprivate fun CharSequence.indexOf(other: CharSequence, startIndex: Int,
endIndex: Int, ignoreCase: Boolean, last: Boolean = false): Int {\n    val indices = if (!last)\n
startIndex.coerceAtLeast(0)..endIndex.coerceAtMost(length)\n    else\n        startIndex.coerceAtMost(lastIndex)
downTo endIndex.coerceAtLeast(0)\n\n    if (this is String && other is String) { // smart cast\n        for (index in
indices) {\n            if (other.regionMatches(0, this, index, other.length, ignoreCase))\n                return index\n
}\n    } else {\n        for (index in indices) {\n            if (other.regionMatchesImpl(0, this, index, other.length,
ignoreCase))\n                return index\n        }\n    }\n    return -1\n}\n\nprivate fun CharSequence.findAnyOf(strings:
Collection<String>,
startIndex: Int, ignoreCase: Boolean, last: Boolean): Pair<Int, String>? {\n    if (!ignoreCase && strings.size == 1)
{\n        val string = strings.single()\n        val index = if (!last) indexOf(string, startIndex) else lastIndexOf(string,
startIndex)\n        return if (index < 0) null else index to string\n    }\n\n    val indices = if (!last)
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startIndex.coerceAtLeast(0)..length else startIndex.coerceAtMost(lastIndex) downTo 0\n\n    if (this is String) {\n     for (index in indices) {\n            val matchingString = strings.firstOrNull { it.regionMatches(0, this, index, it.length, ignoreCase) }\n            if (matchingString != null)\n                return index to matchingString\n        }\n    } else {\n       for (index in indices) {\n            val matchingString = strings.firstOrNull { it.regionMatchesImpl(0, this, index, it.length, ignoreCase) }\n            if (matchingString != null)\n                return index to matchingString\n        }\n    }\n\n    return
 null\n}\n\n/**\n * Finds the first occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return A pair of an index of the first occurrence of matched string from [strings] and the string matched\n * or `null` if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the beginning to the end of this string, and finds at each position the first element in [strings]\n * that matches this string at that position.\n */\npublic fun CharSequence.findAnyOf(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Pair<Int, String>? =\n    findAnyOf(strings, startIndex, ignoreCase, last = false)\n\n/**\n * Finds the last occurrence of any of the specified [strings] in this char sequence,\n
 * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return A pair of an index of the last occurrence of matched string from [strings] and the string matched or `null` if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the end toward the beginning of this string, and finds at each position the first element in [strings]\n * that matches this string at that position.\n */\npublic fun CharSequence.findLastAnyOf(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Pair<Int, String>? =\n    findAnyOf(strings, startIndex, ignoreCase, last = true)\n\n/**\n * Finds the index of the first occurrence
 of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring the case.\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return An index of the first occurrence of matched string from [strings] or -1 if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the beginning to the end of this string, and finds at each position the first element in [strings]\n * that matches this string at that position.\n */\npublic fun CharSequence.indexOfAny(strings: Collection<String>, startIndex: Int = 0, ignoreCase: Boolean = false): Int =\n    findAnyOf(strings, startIndex, ignoreCase, last = false)?.first ?: -1\n\n/**\n * Finds the index of the last occurrence of any of the specified [strings] in this char sequence,\n * starting from the specified [startIndex] and optionally ignoring
 the case.\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return An index of the last occurrence of matched string from [strings] or -1 if none of [strings] are found.\n *\n * To avoid ambiguous results when strings in [strings] have characters in common, this method proceeds from\n * the end toward the beginning of this string, and finds at each position the first element in [strings]\n * that matches this string at that position.\n */\npublic fun CharSequence.lastIndexOfAny(strings: Collection<String>, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int =\n    findAnyOf(strings, startIndex, ignoreCase, last = true)?.first ?: -1\n\n// indexOf\n\n/**\n * Returns the index within this string of the first occurrence of the specified character, starting from the specified [startIndex].\n
 *\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @return An index of the first occurrence of [char] or -1 if none is found.\n */\npublic fun CharSequence.indexOf(char: Char, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n    return if (ignoreCase || this !is String)\n        indexOfAny(charArrayOf(char), startIndex, ignoreCase)\n    else\n        nativeIndexOf(char, startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the first occurrence of the specified [string],\n * starting from the specified [startIndex].\n *\n * @param ignoreCase `true` to ignore character case when matching a string. By default
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`false`.\n * @return An index of the first occurrence of [string] or `-1` if none is found.\n */\npublic fun CharSequence.indexOf(string: String, startIndex: Int = 0, ignoreCase: Boolean = false): Int {\n return if (ignoreCase || this !is String)\n indexOf(string, startIndex, length, ignoreCase)\n else\n nativeIndexOf(string, startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the last occurrence of the specified character,\n * starting from the specified [startIndex].\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a character. By default `false`.\n * @return An index of the first occurrence of [char] or -1 if none is found.\n */\npublic fun CharSequence.lastIndexOf(char: Char, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n return if (ignoreCase || this !is String)\n lastIndexOfAny(charArrayOf(char), startIndex, ignoreCase)\n else\n nativeLastIndexOf(char, startIndex)\n}\n\n/**\n * Returns the index within this char sequence of the last occurrence of the specified [string],\n * starting from the specified [startIndex].\n *\n * @param startIndex The index of character to start searching at. The search proceeds backward toward the beginning of the string.\n * @param ignoreCase `true` to ignore character case when matching a string. By default `false`.\n * @return An index of the first occurrence of [string] or -1 if none is found.\n */\npublic fun CharSequence.lastIndexOf(string: String, startIndex: Int = lastIndex, ignoreCase: Boolean = false): Int {\n return if (ignoreCase || this !is String)\n indexOf(string, startIndex, 0, ignoreCase, last = true)\n else\n nativeLastIndexOf(string, startIndex)\n}\n\n/**\n * Returns `true` if this char sequence contains the specified [other] sequence of characters as a substring.\n *\n * @param ignoreCase `true` to ignore character case when comparing strings. By default `false`.\n */\n@Suppress(\"INAPPLICABLE_OPERATOR_MODIFIER\")\npublic operator fun CharSequence.contains(other: CharSequence, ignoreCase: Boolean = false): Boolean =\n if (other is String)\n indexOf(other,
ignoreCase = ignoreCase) >= 0\n else\n indexOf(other, 0, length, ignoreCase) >= 0\n\n\n\n/**\n * Returns `true` if this char sequence contains the specified character [char].\n *\n * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.\n */\n@Suppress(\"INAPPLICABLE_OPERATOR_MODIFIER\")\npublic operator fun CharSequence.contains(char: Char, ignoreCase: Boolean = false): Boolean =\n indexOf(char, ignoreCase = ignoreCase) >= 0\n\n/**\n * Returns `true` if this char sequence contains at least one match of the specified regular expression [regex].\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun CharSequence.contains(regex: Regex): Boolean = regex.containsMatchIn(this)\n\n\n// rangesDelimitedBy\n\n\nprivate class DelimitedRangesSequence(\n private val input: CharSequence,\n private val startIndex: Int,\n private val limit: Int,\n private val getNextMatch: CharSequence.(currentIndex: Int) -> Pair<Int,
Int>?\n) : Sequence<IntRange> {\n\n override fun iterator(): Iterator<IntRange> = object : Iterator<IntRange> {\n var nextState: Int = -1 // -1 for unknown, 0 for done, 1 for continue\n var currentStartIndex: Int = startIndex.coerceIn(0, input.length)\n var nextSearchIndex: Int = currentStartIndex\n var nextItem: IntRange? = null\n var counter: Int = 0\n\n private fun calcNext() {\n if (nextSearchIndex < 0) {\n nextState = 0\n nextItem = null\n } else {\n if (limit > 0 && ++counter >= limit || nextSearchIndex > input.length) {\n nextItem = currentStartIndex..input.lastIndex\n nextSearchIndex = -1\n } else {\n val match = input.getNextMatch(nextSearchIndex)\n if (match == null) {\n nextItem = currentStartIndex..input.lastIndex\n nextSearchIndex
= -1\n } else {\n val (index, length) = match\n nextItem = currentStartIndex until index\n currentStartIndex = index + length\n nextSearchIndex = currentStartIndex + if (length == 0) 1 else 0\n }\n }\n nextState = 1\n }\n }\n\n override fun next(): IntRange {\n if (nextState == -1)\n calcNext()\n if (nextState == 0)\n throw NoSuchElementException()\n val result = nextItem as IntRange\n // Clean next to avoid keeping reference on yielded instance\n nextItem = null\n nextState = -1\n return result\n }\n\n override fun hasNext(): Boolean {\n if (nextState == -1)\n calcNext()\n return nextState ==

1\n }\n }\n}\n\n/**\n * Returns a sequence
of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more characters to be used as delimiters.\n * @param startIndex The index to start searching delimiters from.\n * No range having its start value less than [startIndex] is returned.\n * [startIndex] is coerced to be non-negative and not greater than length of this string.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\n */\nprivate fun CharSequence.rangesDelimitedBy(delimiters: CharArray, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\n require(limit >= 0, { \"Limit must be non-negative, but was $limit.\" })\n\n return DelimitedRangesSequence(this, startIndex, limit, { currentIndex ->\n indexOfAny(delimiters, currentIndex, ignoreCase = ignoreCase).let
{ if (it < 0) null else it to 1 }\n })\n}\n\n/**\n * Returns a sequence of index ranges of substrings in this char sequence around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more strings to be used as delimiters.\n * @param startIndex The index to start searching delimiters from.\n * No range having its start value less than [startIndex] is returned.\n * [startIndex] is coerced to be non-negative and not greater than length of this string.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\n *\n * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from\n * the beginning to the end of this string, and finds at each position the first element in [delimiters]\n * that matches this string at that position.\n */\nprivate fun CharSequence.rangesDelimitedBy(delimiters:
Array<out String>, startIndex: Int = 0, ignoreCase: Boolean = false, limit: Int = 0): Sequence<IntRange> {\n require(limit >= 0, { \"Limit must be non-negative, but was $limit.\" })\n val delimitersList = delimiters.asList()\n\n return DelimitedRangesSequence(this, startIndex, limit, { currentIndex -> findAnyOf(delimitersList, currentIndex, ignoreCase = ignoreCase, last = false)?.let { it.first to it.second.length } })\n\n}\n\n\n// split\n\n/**\n * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more strings to be used as delimiters.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\n *\n * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from\n * the beginning to
the end of this string, and finds at each position the first element in [delimiters]\n * that matches this string at that position.\n */\npublic fun CharSequence.splitToSequence(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =\n rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).map { substring(it) }\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more strings to be used as delimiters.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return. Zero by default means no limit is set.\n *\n * To avoid ambiguous results when strings in [delimiters] have characters in common, this method proceeds from\n * the beginning to the end of this string, and matches at each position the first element in [delimiters]\n * that is equal to a delimiter
in this instance at that position.\n */\npublic fun CharSequence.split(vararg delimiters: String, ignoreCase: Boolean = false, limit: Int = 0): List<String> {\n if (delimiters.size == 1) {\n val delimiter = delimiters[0]\n if (!delimiter.isEmpty()) {\n return split(delimiter, ignoreCase, limit)\n }\n }\n\n return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }\n}\n\n/**\n * Splits this char sequence to a sequence of strings around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more characters to be used as delimiters.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.\n */\npublic fun CharSequence.splitToSequence(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): Sequence<String> =\n rangesDelimitedBy(delimiters, ignoreCase
= ignoreCase, limit = limit).map { substring(it) }\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiters].\n *\n * @param delimiters One or more characters to be used as

delimiters.\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.\n */\npublic fun CharSequence.split(vararg delimiters: Char, ignoreCase: Boolean = false, limit: Int = 0): List<String> {\n   if (delimiters.size == 1) {\n   return split(delimiters[0].toString(), ignoreCase, limit)\n   }\n\n   return rangesDelimitedBy(delimiters, ignoreCase = ignoreCase, limit = limit).asIterable().map { substring(it) }\n}\n\n/**\n * Splits this char sequence to a list of strings around occurrences of the specified [delimiter].\n * This is specialized version of split which receives single non-empty delimiter and offers better performance\n *\n * @param delimiter String
 used as delimiter\n * @param ignoreCase `true` to ignore character case when matching a delimiter. By default `false`.\n * @param limit The maximum number of substrings to return.\n */\nprivate fun CharSequence.split(delimiter: String, ignoreCase: Boolean, limit: Int): List<String> {\n   require(limit >= 0, { \"Limit must be non-negative, but was $limit.\" })\n\n   var currentOffset = 0\n   var nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\n   if (nextIndex == -1 || limit == 1) {\n   return listOf(this.toString())\n   }\n\n   val isLimited = limit > 0\n   val result = ArrayList<String>(if (isLimited) limit.coerceAtMost(10) else 10)\n   do {\n   result.add(substring(currentOffset, nextIndex))\n   currentOffset = nextIndex + delimiter.length\n   // Do not search for next occurrence if we're reaching limit\n   if (isLimited && result.size == limit - 1) break\n   nextIndex = indexOf(delimiter, currentOffset, ignoreCase)\n   } while (nextIndex
 != -1)\n\n   result.add(substring(currentOffset, length))\n   return result\n}\n\n/**\n * Splits this char sequence around matches of the given regular expression.\n *\n * @param limit Non-negative value specifying the maximum number of substrings to return.\n * Zero by default means no limit is set.\n */\n@kotlin.internal.InlineOnly\npublic inline fun CharSequence.split(regex: Regex, limit: Int = 0): List<String> = regex.split(this, limit)\n\n/**\n * Splits this char sequence to a sequence of lines delimited by any of the following character sequences: CRLF, LF or CR.\n *\n * The lines returned do not include terminating line separators.\n */\npublic fun CharSequence.lineSequence(): Sequence<String> = splitToSequence(\"\\r\\n\", \"\\n\", \"\\r\")\n\n/**\n * Splits this char sequence to a list of lines delimited by any of the following character sequences: CRLF, LF or CR.\n *\n * The lines returned do not include terminating line separators.\n */\npublic fun CharSequence.lines():
 List<String> = lineSequence().toList()\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport kotlin.js.RegExp\n\n/**\n * Converts the characters in the specified array to a string.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun String(chars: CharArray): String {\n var result = \"\"\n   for (char in chars) {\n   result += char\n   }\n   return result\n}\n\n/**\n * Converts the characters from a portion of the specified array to a string.\n *\n * @throws IndexOutOfBoundsException if either [offset] or [length] are less than zero\n * or `offset + length` is out of [chars] array bounds.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun String(chars: CharArray, offset: Int, length: Int): String {\n   if (offset < 0 || length < 0 || chars.size - offset < length)\n   throw IndexOutOfBoundsException(\"size:
 ${chars.size}; offset: $offset; length: $length\")\n   var result = \"\"\n   for (index in offset until offset + length) {\n   result += chars[index]\n   }\n   return result\n}\n\n/**\n * Concatenates characters in this [CharArray] into a String.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic actual fun CharArray.concatToString(): String {\n   var result = \"\"\n   for (char in this) {\n   result += char\n   }\n   return result\n}\n\n/**\n * Concatenates characters in this [CharArray] or its subrange into a String.\n *\n * @param startIndex the beginning (inclusive) of the subrange of characters, 0 by default.\n * @param endIndex the end (exclusive) of the subrange of characters, size of this array by default.\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n@ExperimentalStdlibApi\npublic
 actual fun CharArray.concatToString(startIndex: Int = 0, endIndex: Int = this.size): String {\n   AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n   var result = \"\"\n   for (index in startIndex

until endIndex) {\n result += this[index]\n }\n return result\n}\n\n/**\n * Returns a [CharArray] containing characters of this string.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic actual fun String.toCharArray(): CharArray {\n return CharArray(length) { get(it) }\n}\n\n/**\n * Returns a [CharArray] containing characters of this string or its substring.\n *\n * @param startIndex the beginning (inclusive) of the substring, 0 by default.\n * @param endIndex the end (exclusive) of the substring, length of this string by default.\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this
string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n@ExperimentalStdlibApi\npublic actual fun String.toCharArray(startIndex: Int = 0, endIndex: Int = this.length): CharArray {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n return CharArray(endIndex - startIndex) { get(startIndex + it) }\n}\n\n/**\n * Decodes a string from the bytes in UTF-8 encoding in this array.\n *\n * Malformed byte sequences are replaced by the replacement char `\\uFFFD`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic actual fun ByteArray.decodeToString(): String {\n return decodeUtf8(this, 0, size, false)\n}\n\n/**\n * Decodes a string from the bytes in UTF-8 encoding in this array or its subrange.\n *\n * @param startIndex the beginning (inclusive) of the subrange to decode, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to decode,
size of this array by default.\n * @param throwOnInvalidSequence specifies whether to throw an exception on malformed byte sequence or replace it by the replacement char `\\uFFFD`.\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n * @throws CharacterCodingException if the byte array contains malformed UTF-8 byte sequence and [throwOnInvalidSequence] is true.\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n@ExperimentalStdlibApi\npublic actual fun ByteArray.decodeToString(\n startIndex: Int = 0,\n endIndex: Int = this.size,\n throwOnInvalidSequence: Boolean = false\n): String {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, this.size)\n return decodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n/**\n * Encodes this string to an array of bytes in
UTF-8 encoding.\n *\n * Any malformed char sequence is replaced by the replacement byte sequence.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic actual fun String.encodeToByteArray(): ByteArray {\n return encodeUtf8(this, 0, length, false)\n}\n\n/**\n * Encodes this string or its substring to an array of bytes in UTF-8 encoding.\n *\n * @param startIndex the beginning (inclusive) of the substring to encode, 0 by default.\n * @param endIndex the end (exclusive) of the substring to encode, length of this string by default.\n * @param throwOnInvalidSequence specifies whether to throw an exception on malformed char sequence or replace.\n *\n * @throws IndexOutOfBoundsException if [startIndex] is less than zero or [endIndex] is greater than the length of this string.\n * @throws IllegalArgumentException if [startIndex] is greater than [endIndex].\n * @throws CharacterCodingException if this string contains malformed char sequence and [throwOnInvalidSequence] is true.\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n@ExperimentalStdlibApi\npublic
actual fun String.encodeToByteArray(\n startIndex: Int = 0,\n endIndex: Int = this.length,\n throwOnInvalidSequence: Boolean = false\n): ByteArray {\n AbstractList.checkBoundsIndexes(startIndex, endIndex, length)\n return encodeUtf8(this, startIndex, endIndex, throwOnInvalidSequence)\n}\n\n/**\n * Returns a copy of this string converted to upper case using the rules of the default locale.\n *\n * @sample samples.text.Strings.toUpperCase\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toUpperCase(): String = asDynamic().toUpperCase()\n\n/**\n * Returns a copy of this string converted to lower case using the rules of the default locale.\n *\n * @sample samples.text.Strings.toLowerCase\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toLowerCase(): String = asDynamic().toLowerCase()\n\n@kotlin.internal.InlineOnly\ninternal actual inline

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fun String.nativeIndexOf(str: String, fromIndex: Int): Int = asDynamic().indexOf(str, fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeLastIndexOf(str: String, fromIndex: Int): Int = asDynamic().lastIndexOf(str, fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal inline fun String.nativeStartsWith(s: String, position: Int): Boolean = asDynamic().startsWith(s, position)\n\n@kotlin.internal.InlineOnly\ninternal inline fun String.nativeEndsWith(s: String): Boolean = asDynamic().endsWith(s)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun String.substring(startIndex: Int): String = asDynamic().substring(startIndex)\n\n@kotlin.internal.InlineOnly\npublic actual inline fun String.substring(startIndex: Int, endIndex: Int): String = asDynamic().substring(startIndex, endIndex)\n\n@kotlin.internal.InlineOnly\npublic inline fun String.concat(str: String): String = asDynamic().concat(str)\n\n@kotlin.internal.InlineOnly\npublic inline fun String.match(regex:
 String): Array<String>? = asDynamic().match(regex)\n\n//native public fun String.trim(): String\n//TODO: String.replace to implement effective trimLeading and trimTrailing\n\n@kotlin.internal.InlineOnly\ninternal inline fun String.nativeReplace(pattern: RegExp, replacement: String): String = asDynamic().replace(pattern, replacement)\n\n@SinceKotlin(\"1.2\")\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun String.compareTo(other: String, ignoreCase: Boolean = false): Int {\n    if (ignoreCase) {\n        val n1 = this.length\n        val n2 = other.length\n        val min = minOf(n1, n2)\n        if (min == 0) return n1 - n2\n        var start = 0\n        while (true) {\n            val end = minOf(start + 16, min)\n            var s1 = this.substring(start, end)\n            var s2 = other.substring(start, end)\n            if (s1 != s2) {\n                s1 = s1.toUpperCase()\n                s2 = s2.toUpperCase()\n                if (s1 != s2) {\n                    s1 = s1.toLowerCase()\n                    s2 = s2.toLowerCase()\n                    if (s1 != s2) {\n                        return s1.compareTo(s2)\n                    }\n                }\n            }\n            if (end == min) break\n            start = end\n        }\n        return n1 - n2\n    } else {\n        return compareTo(other)\n    }\n}\n\n\nprivate val STRING_CASE_INSENSITIVE_ORDER = Comparator<String> { a, b -> a.compareTo(b, ignoreCase = true) }\n\n@SinceKotlin(\"1.2\")\npublic actual val String.Companion.CASE_INSENSITIVE_ORDER: Comparator<String>\n    get() = STRING_CASE_INSENSITIVE_ORDER\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline class UByteArray\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\n@PublishedApi\ninternal
 constructor(@PublishedApi internal val storage: ByteArray) : Collection<UByte> {\n\n    /** Creates a new array of the specified [size], with all elements initialized to zero. */\n    public constructor(size: Int) : this(ByteArray(size))\n\n    /**\n     * Returns the array element at the given [index]. This method can be called using the index operator.\n     *\n     * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is unspecified.\n     */\n    public operator fun get(index: Int): UByte = storage[index].toUByte()\n\n    /**\n     * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\n     *\n     * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n     * where the behavior is unspecified.\n     */\n
 public operator fun set(index: Int, value: UByte) {\n        storage[index] = value.toByte()\n    }\n\n    /** Returns the number of elements in the array. */\n    public override val size: Int get() = storage.size\n\n    /** Creates an iterator over the elements of the array. */\n    public override operator fun iterator(): UByteIterator = Iterator(storage)\n\n    private class Iterator(private val array: ByteArray) : UByteIterator() {\n        private var index = 0\n        override fun hasNext() = index < array.size\n        override fun nextUByte() = if (index < array.size) array[index++].toUByte() else throw NoSuchElementException(index.toString())\n    }\n\n    override fun contains(element: UByte): Boolean {\n        // TODO: Eliminate this check after KT-30016 gets fixed.\n        // Currently JS BE does not generate special bridge method for this method.\n        if ((element as Any?) !is UByte) return false\n\n        return storage.contains(element.toByte())\n    }\n\n    override
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fun containsAll(elements: Collection<UByte>): Boolean {\n return (elements as Collection<*>).all { it is UByte && storage.contains(it.toByte()) }\n }\n\n override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each array element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray(size: Int, init: (Int) -> UByte): UByteArray {\n return UByteArray(ByteArray(size) { index -> init(index).toByte()\n })\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ubyteArrayOf(vararg elements: UByte): UByteArray = elements\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline class UIntArray\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: IntArray) : Collection<UInt> {\n\n /** Creates a new array of the specified [size], with all elements initialized to zero. */\n public constructor(size: Int) : this(IntArray(size))\n\n /**\n * Returns the array element at the given [index]. This method can be called using the index operator.\n *\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n public operator fun get(index: Int): UInt = storage[index].toUInt()\n\n /**\n * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\n *\n * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n * where the behavior is unspecified.\n */\n public operator fun set(index: Int, value: UInt) {\n storage[index] = value.toInt()\n }\n\n /** Returns the number of elements in the array. */\n public override val size: Int get() = storage.size\n\n /** Creates an iterator over the elements of the array. */\n public override operator fun iterator(): UIntIterator = Iterator(storage)\n\n private class Iterator(private val array: IntArray) : UIntIterator() {\n private var index = 0\n override fun hasNext() = index < array.size\n override fun nextUInt() = if (index < array.size) array[index++].toUInt() else throw NoSuchElementException(index.toString())\n }\n\n override fun contains(element: UInt): Boolean {\n // TODO: Eliminate this check after KT-30016 gets fixed.\n // Currently JS BE does not generate special bridge method for this method.\n if ((element as Any?) !is UInt) return false\n\n return storage.contains(element.toInt())\n }\n\n override fun containsAll(elements: Collection<UInt>): Boolean {\n return (elements as Collection<*>).all { it is UInt && storage.contains(it.toInt()) }\n }\n\n override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each array element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray(size: Int, init: (Int) -> UInt): UIntArray {\n return UIntArray(IntArray(size) { index -> init(index).toInt()\n })\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun uintArrayOf(vararg elements: UInt): UIntArray = elements\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline class ULongArray\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: LongArray) : Collection<ULong> {\n\n /** Creates a new array of the specified [size], with all elements initialized to zero. */\n public constructor(size: Int) :

this(LongArray(size))\n\n   /**\n   * Returns the array element at the given [index]. This method can be called using the
 index operator.\n   *\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n   * where the behavior is unspecified.\n   */\n   public operator fun get(index: Int): ULong = storage[index].toULong()\n\n   /**\n   * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\n   *\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n   * where the behavior is unspecified.\n   */\n   public operator fun set(index: Int, value: ULong) {\n   storage[index] = value.toLong()\n   }\n\n   /** Returns the number of elements in the array. */\n   public override val size: Int get() = storage.size\n\n   /** Creates an iterator over the elements of the array. */\n   public override operator fun iterator(): ULongIterator = Iterator(storage)\n\n   private class Iterator(private val array: LongArray) : ULongIterator()
 {\n   private var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextULong() = if (index < array.size) array[index++].toULong() else throw NoSuchElementException(index.toString())\n   }\n\n   override fun contains(element: ULong): Boolean {\n   // TODO: Eliminate this check after KT-30016 gets fixed.\n   // Currently JS BE does not generate special bridge method for this method.\n   if ((element as Any?) !is ULong) return false\n\n   return storage.contains(element.toLong())\n   }\n\n   override fun containsAll(elements: Collection<ULong>): Boolean {\n   return (elements as Collection<*>).all { it is ULong && storage.contains(it.toLong()) }\n   }\n\n   override fun isEmpty(): Boolean = this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each array element
 sequentially starting from the first one.\n * It should return the value for an array element given its index.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray(size: Int, init: (Int) -> ULong): ULongArray {\n   return ULongArray(LongArray(size) { index -> init(index).toLong()
})\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ulongArrayOf(vararg elements: ULong): ULongArray = elements\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\nimport
kotlin.experimental.*\n\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline class ULong @PublishedApi internal constructor(@PublishedApi
 internal val data: Long) : Comparable<ULong> {\n\n   companion object {\n   /**\n   * A constant holding the minimum value an instance of ULong can have.\n   */\n   public const val MIN_VALUE: ULong = ULong(0)\n\n   /**\n   * A constant holding the maximum value an instance of ULong can have.\n   */\n
 public const val MAX_VALUE: ULong = ULong(-1)\n\n   /**\n   * The number of bytes used to represent an instance of ULong in a binary form.\n   */\n   public const val SIZE_BYTES: Int = 8\n\n   /**\n   * The number of bits used to represent an instance of ULong in a binary form.\n   */\n   public const val SIZE_BITS: Int = 64\n   }\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n
 @kotlin.internal.InlineOnly\n   public inline operator fun compareTo(other: UByte): Int = this.compareTo(other.toULong())\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n   @kotlin.internal.InlineOnly\n   public inline operator fun compareTo(other: UShort): Int = this.compareTo(other.toULong())\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n   @kotlin.internal.InlineOnly\n

public inline operator fun compareTo(other: UInt): Int = this.compareTo(other.toULong())\n\n   /**\n   * Compares this value with the specified value for order.\n   * Returns zero if this value is equal to the specified other value, a negative number if it's less than other,\n   * or a positive number if it's greater than other.\n   */\n   @kotlin.internal.InlineOnly\n   @Suppress(\"OVERRIDE_BY_INLINE\")\n   public override inline operator fun compareTo(other: ULong): Int = ulongCompare(this.data, other.data)\n\n   /** Adds the other value to this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: UByte): ULong = this.plus(other.toULong())\n   /** Adds the other value to this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: UShort): ULong = this.plus(other.toULong())\n   /** Adds the other value to this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: UInt): ULong = this.plus(other.toULong())\n   /** Adds the other value to this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun plus(other: ULong): ULong = ULong(this.data.plus(other.data))\n\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: UByte): ULong = this.minus(other.toULong())\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: UShort): ULong = this.minus(other.toULong())\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: UInt): ULong = this.minus(other.toULong())\n   /** Subtracts the other value from this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun minus(other: ULong): ULong = ULong(this.data.minus(other.data))\n\n   /** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: UByte): ULong = this.times(other.toULong())\n   /** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: UShort): ULong = this.times(other.toULong())\n   /** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: UInt): ULong = this.times(other.toULong())\n   /** Multiplies this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun times(other: ULong): ULong = ULong(this.data.times(other.data))\n\n   /** Divides this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: UByte): ULong = this.div(other.toULong())\n   /** Divides this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: UShort): ULong = this.div(other.toULong())\n   /** Divides this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: UInt): ULong = this.div(other.toULong())\n   /** Divides this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun div(other: ULong): ULong = ulongDivide(this, other)\n\n   /** Calculates the remainder of dividing this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UByte): ULong = this.rem(other.toULong())\n   /** Calculates the remainder of dividing this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UShort): ULong = this.rem(other.toULong())\n   /** Calculates the remainder of dividing this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: UInt): ULong = this.rem(other.toULong())\n   /** Calculates the remainder of dividing this value by the other value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rem(other: ULong): ULong = ulongRemainder(this, other)\n\n   /** Increments this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun inc(): ULong = ULong(data.inc())\n   /** Decrements this value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun dec(): ULong = ULong(data.dec())\n\n   /** Creates a range from this value to the specified [other] value. */\n   @kotlin.internal.InlineOnly\n   public inline operator fun rangeTo(other: ULong): ULongRange = ULongRange(this, other)\n\n   /** Shifts this value left by the [bitCount] number of bits. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun shl(bitCount: Int): ULong = ULong(data shl bitCount)\n   /** Shifts this value right by the [bitCount] number of bits, filling the leftmost bits with zeros. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun shr(bitCount: Int): ULong = ULong(data ushr bitCount)\n   /** Performs a bitwise AND operation between the two values. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun and(other: ULong): ULong = ULong(this.data and

other.data)\n   /**
 Performs a bitwise OR operation between the two values. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun or(other: ULong): ULong = ULong(this.data or other.data)\n   /** Performs a bitwise XOR operation between the two values. */\n   @kotlin.internal.InlineOnly\n   public inline infix fun xor(other: ULong): ULong = ULong(this.data xor other.data)\n   /** Inverts the bits in this value. */\n   @kotlin.internal.InlineOnly\n   public inline fun inv(): ULong = ULong(data.inv())\n\n   /**\n   * Converts this [ULong] value to [Byte].\n   *\n   * If this value is less than or equals to [Byte.MAX_VALUE], the resulting `Byte` value represents\n   * the same numerical value as this `ULong`.\n   *\n   * The resulting `Byte` value is represented by the least significant 8 bits of this `ULong` value.\n   * Note that the resulting `Byte` value may be negative.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toByte(): Byte = data.toByte()\n
 /**\n   * Converts this [ULong] value to [Short].\n   *\n   * If this value is less than or equals to [Short.MAX_VALUE], the resulting `Short` value represents\n   * the same numerical value as this `ULong`.\n   *\n   * The resulting `Short` value is represented by the least significant 16 bits of this `ULong` value.\n   * Note that the resulting `Short` value may be negative.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toShort(): Short = data.toShort()\n   /**\n   * Converts this [ULong] value to [Int].\n   *\n   * If this value is less than or equals to [Int.MAX_VALUE], the resulting `Int` value represents\n   * the same numerical value as this `ULong`.\n   *\n   * The resulting `Int` value is represented by the least significant 32 bits of this `ULong` value.\n   * Note that the resulting `Int` value may be negative.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toInt(): Int = data.toInt()\n   /**\n   * Converts
 this [ULong] value to [Long].\n   *\n   * If this value is less than or equals to [Long.MAX_VALUE], the resulting `Long` value represents\n   * the same numerical value as this `ULong`. Otherwise the result is negative.\n   *\n   * The resulting `Long` value has the same binary representation as this `ULong` value.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toLong(): Long = data\n\n   /**\n   * Converts this [ULong] value to [UByte].\n   *\n   * If this value is less than or equals to [UByte.MAX_VALUE], the resulting `UByte` value represents\n   * the same numerical value as this `ULong`.\n   *\n   * The resulting `UByte` value is represented by the least significant 8 bits of this `ULong` value.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toUByte(): UByte = data.toUByte()\n   /**\n   * Converts this [ULong] value to [UShort].\n   *\n   * If this value is less than or equals to [UShort.MAX_VALUE], the resulting `UShort`
 value represents\n   * the same numerical value as this `ULong`.\n   *\n   * The resulting `UShort` value is represented by the least significant 16 bits of this `ULong` value.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toUShort(): UShort = data.toUShort()\n   /**\n   * Converts this [ULong] value to [UInt].\n   *\n   * If this value is less than or equals to [UInt.MAX_VALUE], the resulting `UInt` value represents\n   * the same numerical value as this `ULong`.\n   *\n   * The resulting `UInt` value is represented by the least significant 32 bits of this `ULong` value.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toUInt(): UInt = data.toUInt()\n   /** Returns this value. */\n   @kotlin.internal.InlineOnly\n   public inline fun toULong(): ULong = this\n\n   /**\n   * Converts this [ULong] value to [Float].\n   *\n   * The resulting value is the closest `Float` to this `ULong` value.\n   * In case when this
 `ULong` value is exactly between two `Float`s,\n   * the one with zero at least significant bit of mantissa is selected.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toFloat(): Float = this.toDouble().toFloat()\n   /**\n   * Converts this [ULong] value to [Double].\n   *\n   * The resulting value is the closest `Double` to this `ULong` value.\n   * In case when this `ULong` value is exactly between two `Double`s,\n   * the one with zero at least significant bit of mantissa is selected.\n   */\n   @kotlin.internal.InlineOnly\n   public inline fun toDouble(): Double = ulongToDouble(data)\n\n   public override fun toString(): String = ulongToString(data)\n\n}\n\n/**\n * Converts this [Byte] value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Byte`.\n *\n * The least significant 8 bits of the resulting `ULong` value are the same as the bits of this `Byte` value,\n * whereas the most
 significant 56 bits are filled with the sign bit of this value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

Byte.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Short] value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Short`.\n *\n * The least significant 16 bits of the resulting `ULong` value are the same as the bits of this `Short` value,\n * whereas the most significant 48 bits are filled with the sign bit of this value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Short.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Int] value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Int`.\n *\n * The least significant 32 bits of the resulting `ULong` value are the same as the bits of this `Int`
value,\n * whereas the most significant 32 bits are filled with the sign bit of this value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Int.toULong(): ULong = ULong(this.toLong())\n/**\n * Converts this [Long] value to [ULong].\n *\n * If this value is positive, the resulting `ULong` value represents the same numerical value as this `Long`.\n *\n * The resulting `ULong` value has the same binary representation as this `Long` value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Long.toULong(): ULong = ULong(this)\n\n/**\n * Converts this [Float] value to [ULong].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Float` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Float.toULong(): ULong
= doubleToULong(this.toDouble())\n/**\n * Converts this [Double] value to [ULong].\n *\n * The fractional part, if any, is rounded down towards zero.\n * Returns zero if this `Double` value is negative or `NaN`, [ULong.MAX_VALUE] if it's bigger than `ULong.MAX_VALUE`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun Double.toULong(): ULong = doubleToULong(this)\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline class UShortArray\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\n@PublishedApi\ninternal constructor(@PublishedApi internal val storage: ShortArray) : Collection<UShort> {\n\n   /**
Creates a new array of the specified
[size], with all elements initialized to zero. */\n   public constructor(size: Int) : this(ShortArray(size))\n\n   /**\n   * Returns the array element at the given [index]. This method can be called using the index operator.\n   *\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n   * where the behavior is unspecified.\n   */\n   public operator fun get(index: Int): UShort = storage[index].toUShort()\n\n   /**\n   * Sets the element at the given [index] to the given [value]. This method can be called using the index operator.\n   *\n   * If the [index] is out of bounds of this array, throws an [IndexOutOfBoundsException] except in Kotlin/JS\n   * where the behavior is unspecified.\n   */\n   public operator fun set(index: Int, value: UShort) {\n   storage[index] = value.toShort()\n   }\n\n   /** Returns the number of elements in the array. */\n   public override val size: Int get() = storage.size\n\n
    /** Creates an iterator over the elements of the array. */\n   public override operator fun iterator(): UShortIterator = Iterator(storage)\n\n   private class Iterator(private val array: ShortArray) : UShortIterator() {\n   private var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextUShort() = if (index < array.size) array[index++].toUShort() else throw NoSuchElementException(index.toString())\n   }\n\n   override fun contains(element: UShort): Boolean {\n   // TODO: Eliminate this check after KT-30016 gets fixed.\n   // Currently JS BE does not generate special bridge method for this method.\n   if ((element as Any?) !is UShort) return false\n\n   return storage.contains(element.toShort())\n   }\n\n   override fun containsAll(elements: Collection<UShort>): Boolean {\n   return (elements as Collection<*>).all { it is UShort && storage.contains(it.toShort()) }\n   }\n\n   override fun isEmpty(): Boolean

= this.storage.size == 0\n}\n\n/**\n * Creates a new array of the specified [size], where each element is calculated by calling the specified\n * [init] function.\n *\n * The function [init] is called for each array element sequentially starting from the first one.\n * It should return the value for an array element given its index.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray(size: Int, init: (Int) -> UShort): UShortArray {\n   return UShortArray(ShortArray(size) { index -> init(index).toShort()\n})\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ushortArrayOf(vararg elements: UShort): UShortArray = elements\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UArraysKt\")\n@file:kotlin.jvm.JvmPackageName(\"kotlin.collections.unsigned\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns 1st *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component1(): UInt {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component1(): ULong {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component1(): UByte {\n   return get(0)\n}\n\n/**\n * Returns 1st *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component1(): UShort {\n   return get(0)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component2(): UInt {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component2(): ULong {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component2(): UByte {\n   return get(1)\n}\n\n/**\n * Returns 2nd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component2(): UShort {\n   return get(1)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component3(): UInt {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component3(): ULong {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component3(): UByte {\n   return get(2)\n}\n\n/**\n * Returns 3rd *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component3(): UShort {\n   return get(2)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component4(): UInt {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component4(): ULong {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component4(): UByte {\n   return get(3)\n}\n\n/**\n * Returns 4th *element* from the collection.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component4(): UShort {\n   return get(3)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.component5(): UInt {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.component5(): ULong {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.component5(): UByte {\n   return get(4)\n}\n\n/**\n * Returns 5th *element* from the collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.component5(): UShort {\n   return get(4)\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.elementAt(index: Int): UInt\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.elementAt(index: Int): ULong\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.elementAt(index: Int): UByte\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.elementAt(index: Int): UShort\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.elementAtOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrElse\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.elementAtOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n   return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.elementAtOrNull(index: Int): UInt? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample

samples.collections.Collections.Elements.elementAtOrNull\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.elementAtOrNull(index: Int): ULong? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.elementAtOrNull(index: Int): UByte? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAtOrNull\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.elementAtOrNull(index: Int): UShort? {\n   return this.getOrNull(index)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.find(predicate: (UInt) -> Boolean): UInt? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.find(predicate: (ULong) -> Boolean): ULong? {\n   return
firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.find(predicate: (UByte) -> Boolean): UByte? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if no such element was found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.find(predicate: (UShort) -> Boolean): UShort? {\n   return firstOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UIntArray.findLast(predicate: (UInt) -> Boolean): UInt? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.findLast(predicate: (ULong) -> Boolean): ULong? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.findLast(predicate: (UByte) -> Boolean): UByte? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.findLast(predicate: (UShort) -> Boolean):
UShort? {\n   return lastOrNull(predicate)\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.first(): UInt {\n   return storage.first().toUInt()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.first(): ULong {\n   return storage.first().toULong()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.first(): UByte {\n   return storage.first().toUByte()\n}\n\n/**\n * Returns first element.\n * @throws
[NoSuchElementException] if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic

inline fun UShortArray.first(): UShort {\n   return storage.first().toUShort()\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.first(predicate: (UInt) -> Boolean): UInt {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.first(predicate: (ULong) -> Boolean): ULong {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.first(predicate: (UByte) -> Boolean): UByte {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.first(predicate: (UShort) -> Boolean): UShort {\n   for (element in this) if (predicate(element)) return element\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.firstOrNull(): UInt? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.firstOrNull(): ULong? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.firstOrNull(): UByte? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.firstOrNull(): UShort? {\n   return if (isEmpty()) null else this[0]\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.firstOrNull(predicate: (UInt) -> Boolean): UInt? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.firstOrNull(predicate: (ULong) -> Boolean): ULong? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.firstOrNull(predicate: (UByte) -> Boolean): UByte? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns the first element matching the given [predicate], or `null` if element was not found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.firstOrNull(predicate: (UShort) -> Boolean): UShort? {\n   for (element in this) if (predicate(element)) return element\n   return null\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.getOrElse(index: Int, defaultValue: (Int) -> UInt): UInt {\n   return if (index >= 0 && index <=

lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.getOrElse(index: Int, defaultValue: (Int) -> ULong): ULong {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.getOrElse(index: Int, defaultValue: (Int) -> UByte): UByte {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or the result of calling the [defaultValue] function if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.getOrElse(index: Int, defaultValue: (Int) -> UShort): UShort {\n return if (index >= 0 && index <= lastIndex) get(index) else defaultValue(index)\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.getOrNull(index: Int): UInt? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.getOrNull(index: Int): ULong? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.getOrNull(index: Int): UByte? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns an element at the given [index] or `null` if the [index] is out of bounds of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.getOrNull(index: Int): UShort? {\n return if (index >= 0 && index <= lastIndex) get(index) else null\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOf(element: UInt): Int {\n return storage.indexOf(element.toInt())\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOf(element: ULong): Int {\n return storage.indexOf(element.toLong())\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOf(element: UByte): Int {\n return storage.indexOf(element.toByte())\n}\n\n/**\n * Returns first index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOf(element: UShort): Int {\n return storage.indexOf(element.toShort())\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOfFirst(predicate: (UInt) -> Boolean): Int {\n return storage.indexOfFirst { predicate(it.toUInt()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOfFirst(predicate: (ULong) -> Boolean): Int {\n return storage.indexOfFirst { predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOfFirst(predicate: (UByte) -> Boolean): Int {\n return storage.indexOfFirst {

predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the first element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOfFirst(predicate: (UShort) -> Boolean): Int {\n   return storage.indexOfFirst { predicate(it.toUShort()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.indexOfLast(predicate: (UInt) -> Boolean): Int {\n   return storage.indexOfLast { predicate(it.toUInt()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.indexOfLast(predicate: (ULong) -> Boolean): Int {\n   return storage.indexOfLast { predicate(it.toULong()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.indexOfLast(predicate: (UByte) -> Boolean): Int {\n   return storage.indexOfLast { predicate(it.toUByte()) }\n}\n\n/**\n * Returns index of the last element matching the given [predicate], or -1 if the array does not contain such element.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.indexOfLast(predicate: (UShort)
 -> Boolean): Int {\n   return storage.indexOfLast { predicate(it.toUShort()) }\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.last(): UInt {\n   return storage.last().toUInt()\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.last(): ULong {\n   return storage.last().toULong()\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.last(): UByte {\n   return storage.last().toUByte()\n}\n\n/**\n * Returns the last element.\n * @throws [NoSuchElementException] if the array is empty.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun UShortArray.last(): UShort {\n   return storage.last().toUShort()\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.last(predicate: (UInt) -> Boolean): UInt {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.last(predicate: (ULong) -> Boolean): ULong {\n   for (index in this.indices.reversed())
 {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.last(predicate: (UByte) -> Boolean): UByte {\n   for (index in this.indices.reversed()) {\n   val element = this[index]\n   if (predicate(element)) return element\n   }\n   throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns the last element matching the given [predicate].\n * @throws [NoSuchElementException] if no such element is found.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.last(predicate: (UShort)
-> Boolean): UShort {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.lastIndexOf(element: UInt): Int {\n return storage.lastIndexOf(element.toInt())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.lastIndexOf(element: ULong): Int {\n return storage.lastIndexOf(element.toLong())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.lastIndexOf(element: UByte): Int {\n return storage.lastIndexOf(element.toByte())\n}\n\n/**\n * Returns last index of [element], or -1 if the array does not contain element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.lastIndexOf(element: UShort): Int {\n return storage.lastIndexOf(element.toShort())\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.lastOrNull(): UInt? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.lastOrNull(): ULong? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic
fun UByteArray.lastOrNull(): UByte? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element, or `null` if the array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.lastOrNull(): UShort? {\n return if (isEmpty()) null else this[size - 1]\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.lastOrNull(predicate: (UInt) -> Boolean): UInt? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.lastOrNull(predicate: (ULong)
-> Boolean): ULong? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.lastOrNull(predicate: (UByte) -> Boolean): UByte? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element)) return element\n }\n return null\n}\n\n/**\n * Returns the last element matching the given [predicate], or `null` if no such element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.lastOrNull(predicate: (UShort) -> Boolean): UShort? {\n for (index in this.indices.reversed()) {\n val element = this[index]\n if (predicate(element))
return element\n }\n return null\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.random(): UInt {\n return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

ULongArray.random(): ULong {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.random(): UByte {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.random(): UShort {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.random(random: Random): UInt {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.random(random: Random): ULong {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.random(random: Random): UByte {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns a random element from this array using the specified source of randomness.\n * \n * @throws NoSuchElementException if this array is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.random(random: Random): UShort {\n   if (isEmpty())\n   throw NoSuchElementException(\"Array is empty.\")\n   return get(random.nextInt(size))\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.single(): UInt {\n   return storage.single().toUInt()\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.single(): ULong {\n   return storage.single().toULong()\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.single(): UByte {\n   return storage.single().toUByte()\n}\n\n/**\n * Returns the single element, or throws an exception if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.single(): UShort {\n   return storage.single().toUShort()\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.single(predicate: (UInt) -> Boolean): UInt {\n   var single: UInt? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n   @Suppress(\"UNCHECKED_CAST\")\n   return single as UInt\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.single(predicate: (ULong) -> Boolean): ULong {\n   var single: ULong? = null\n   var found = false\n   for (element in this) {\n   if (predicate(element)) {\n   if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n   single = element\n   found = true\n   }\n   }\n   if

(!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as ULong\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.single(predicate: (UByte) -> Boolean): UByte {\n var single: UByte? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as UByte\n}\n\n/**\n * Returns the single element matching the given [predicate], or throws exception if there is no or more than one matching element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.single(predicate: (UShort) -> Boolean): UShort {\n var single: UShort? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) throw IllegalArgumentException(\"Array contains more than one matching element.\")\n single = element\n found = true\n }\n }\n if (!found) throw NoSuchElementException(\"Array contains no element matching the predicate.\")\n @Suppress(\"UNCHECKED_CAST\")\n return single as UShort\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.singleOrNull(): UInt? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.singleOrNull(): ULong? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.singleOrNull(): UByte? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns single element, or `null` if the array is empty or has more than one element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.singleOrNull(): UShort? {\n return if (size == 1) this[0] else null\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.singleOrNull(predicate: (UInt) -> Boolean): UInt? {\n var single: UInt? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.singleOrNull(predicate: (ULong) -> Boolean): ULong? {\n var single: ULong? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.singleOrNull(predicate: (UByte) -> Boolean): UByte? {\n var single: UByte? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n if (!found) return null\n return single\n}\n\n/**\n * Returns the single element matching the given [predicate], or `null` if element was not found or more than one element was found.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.singleOrNull(predicate: (UShort) -> Boolean): UShort? {\n var single: UShort? = null\n var found = false\n for (element in this) {\n if (predicate(element)) {\n if (found) return null\n single = element\n found = true\n }\n }\n

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 if (!found) return null\n    return single\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.drop(n: Int): List<UInt> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic
 fun ULongArray.drop(n: Int): List<ULong> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.drop(n: Int): List<UByte> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.drop(n: Int): List<UShort> {\n  require(n >= 0) { \"Requested element count
 $n is less than zero.\" }\n    return takeLast((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.dropLast(n: Int): List<UInt> {\n require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.dropLast(n: Int): List<ULong> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing
 all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.dropLast(n: Int): List<UByte> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.dropLast(n: Int): List<UShort> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    return take((size - n).coerceAtLeast(0))\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n
 */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.dropLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    for (index in lastIndex downTo 0) {\n if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
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ULongArray.dropLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.dropLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except last elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.dropLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    for (index in lastIndex downTo 0) {\n        if (!predicate(this[index])) {\n            return take(index + 1)\n        }\n    }\n    return emptyList()\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.dropWhile(predicate: (UInt) -> Boolean): List<UInt> {\n    var yielding = false\n    val list = ArrayList<UInt>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.dropWhile(predicate: (ULong) -> Boolean): List<ULong> {\n    var yielding = false\n    val list = ArrayList<ULong>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.dropWhile(predicate: (UByte) -> Boolean): List<UByte> {\n    var yielding = false\n    val list = ArrayList<UByte>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing all elements except first elements that satisfy the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.drop\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.dropWhile(predicate: (UShort) -> Boolean): List<UShort> {\n    var yielding = false\n    val list = ArrayList<UShort>()\n    for (item in this)\n        if (yielding)\n            list.add(item)\n        else if (!predicate(item)) {\n            list.add(item)\n            yielding = true\n        }\n    return list\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filter(predicate: (UInt) -> Boolean): List<UInt> {\n    return filterTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filter(predicate: (ULong) -> Boolean): List<ULong> {\n    return filterTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.filter(predicate: (UByte) -> Boolean): List<UByte> {\n    return filterTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
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UShortArray.filter(predicate: (UShort) -> Boolean): List<UShort> {\n return filterTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.filterIndexed(predicate: (index: Int, UInt) -> Boolean): List<UInt> {\n return filterIndexedTo(ArrayList<UInt>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.filterIndexed(predicate: (index: Int, ULong) -> Boolean): List<ULong> {\n return filterIndexedTo(ArrayList<ULong>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.filterIndexed(predicate: (index: Int, UByte) -> Boolean): List<UByte> {\n return filterIndexedTo(ArrayList<UByte>(), predicate)\n}\n\n/**\n * Returns a list containing only elements matching the given [predicate].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.filterIndexed(predicate: (index: Int, UShort) -> Boolean): List<UShort> {\n return filterIndexedTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UInt>> UIntArray.filterIndexedTo(destination: C, predicate: (index: Int, UInt) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in ULong>> ULongArray.filterIndexedTo(destination: C, predicate: (index: Int, ULong) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UByte>> UByteArray.filterIndexedTo(destination: C, predicate: (index: Int, UByte) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n * Appends all elements matching the given [predicate] to the given [destination].\n * @param [predicate] function that takes the index of an element and the element itself\n * and returns the result of predicate evaluation on the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C : MutableCollection<in UShort>> UShortArray.filterIndexedTo(destination: C, predicate: (index: Int, UShort) -> Boolean): C {\n forEachIndexed { index, element ->\n if (predicate(index, element)) destination.add(element)\n }\n return destination\n}\n\n/**\n

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 * Returns a list containing all elements not matching the given [predicate].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.filterNot(predicate: (UInt) -> Boolean): List<UInt> {\n    return filterNotTo(ArrayList<UInt>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.filterNot(predicate: (ULong) -> Boolean): List<ULong> {\n    return filterNotTo(ArrayList<ULong>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching the given [predicate].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.filterNot(predicate: (UByte) -> Boolean): List<UByte> {\n    return filterNotTo(ArrayList<UByte>(),
predicate)\n}\n\n/**\n * Returns a list containing all elements not matching
 the given [predicate].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.filterNot(predicate: (UShort) -> Boolean): List<UShort> {\n    return
filterNotTo(ArrayList<UShort>(), predicate)\n}\n\n/**\n * Appends all elements not matching the given [predicate]
to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UInt>> UIntArray.filterNotTo(destination: C, predicate: (UInt) -> Boolean): C {\n    for
(element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterNotTo(destination: C, predicate: (ULong) -> Boolean): C {\n
for (element in this)
 if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all elements not
matching the given [predicate] to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterNotTo(destination: C, predicate: (UByte) -> Boolean): C {\n    for
(element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all
elements not matching the given [predicate] to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterNotTo(destination: C, predicate: (UShort) -> Boolean): C {\n
for (element in this) if (!predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends
all elements matching the given [predicate] to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun <C : MutableCollection<in UInt>> UIntArray.filterTo(destination: C, predicate: (UInt) -> Boolean): C
{\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n *
Appends all elements matching the given [predicate] to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in ULong>> ULongArray.filterTo(destination: C, predicate: (ULong) -> Boolean): C {\n    for
(element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Appends all
elements matching the given [predicate] to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UByte>> UByteArray.filterTo(destination: C, predicate: (UByte) -> Boolean):
 C {\n    for (element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n *
Appends all elements matching the given [predicate] to the given [destination].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <C :
MutableCollection<in UShort>> UShortArray.filterTo(destination: C, predicate: (UShort) -> Boolean): C {\n    for
(element in this) if (predicate(element)) destination.add(element)\n    return destination\n}\n\n/**\n * Returns a list
containing elements at indices in the specified [indices] range.\n
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*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices: IntRange): List<UInt> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: IntRange): List<ULong> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: IntRange): List<UByte> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: IntRange): List<UShort> {\n   if (indices.isEmpty()) return listOf()\n   return copyOfRange(indices.start, indices.endInclusive + 1).asList()\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.slice(indices:
Iterable<Int>): List<UInt> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<UInt>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.slice(indices: Iterable<Int>): List<ULong> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<ULong>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.slice(indices: Iterable<Int>): List<UByte> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<UByte>(size)\n   for (index
in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns a list containing elements at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.slice(indices: Iterable<Int>): List<UShort> {\n   val size = indices.collectionSizeOrDefault(10)\n   if (size == 0) return emptyList()\n   val list = ArrayList<UShort>(size)\n   for (index in indices) {\n   list.add(get(index))\n   }\n   return list\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices: Collection<Int>): UIntArray {\n   return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices: Collection<Int>): ULongArray {\n   return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices: Collection<Int>): UByteArray {\n   return UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements of this array at specified [indices].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sliceArray(indices: Collection<Int>): UShortArray {\n   return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sliceArray(indices: IntRange): UIntArray {\n   return UIntArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sliceArray(indices: IntRange): ULongArray {\n   return ULongArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sliceArray(indices: IntRange): UByteArray {\n   return

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UByteArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns an array containing elements at indices in the specified [indices] range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sliceArray(indices: IntRange): UShortArray {\n    return UShortArray(storage.sliceArray(indices))\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.take(n: Int): List<UInt> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<UInt>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.take(n: Int): List<ULong> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<ULong>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.take(n: Int): List<UByte> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<UByte>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns a list containing first [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.take(n: Int): List<UShort> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[0])\n    var count = 0\n    val list = ArrayList<UShort>(n)\n    for (item in this) {\n        list.add(item)\n        if (++count == n)\n            break\n    }\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.takeLast(n: Int): List<UInt> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<UInt>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.takeLast(n: Int): List<ULong> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val size = size\n    if (n >= size) return toList()\n    if (n == 1) return listOf(this[size - 1])\n    val list = ArrayList<ULong>(n)\n    for (index in size - n until size)\n        list.add(this[index])\n    return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.takeLast(n: Int): List<UByte> {\n    require(n >= 0) { \"Requested element count $n is less than zero.\" }\n    if (n == 0) return emptyList()\n    val
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size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<UByte>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last [n] elements.\n * \n * @throws IllegalArgumentException if [n] is negative.\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.takeLast(n: Int): List<UShort> {\n   require(n >= 0) { \"Requested element count $n is less than zero.\" }\n   if (n == 0) return emptyList()\n   val size = size\n   if (n >= size) return toList()\n   if (n == 1) return listOf(this[size - 1])\n   val list = ArrayList<UShort>(n)\n   for (index in size - n until size)\n   list.add(this[index])\n   return list\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeLastWhile(predicate: (UInt) -> Boolean): List<UInt> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeLastWhile(predicate: (ULong) -> Boolean): List<ULong> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.takeLastWhile(predicate: (UByte) -> Boolean): List<UByte> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing last elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.takeLastWhile(predicate: (UShort) -> Boolean): List<UShort> {\n   for (index in lastIndex downTo 0) {\n   if (!predicate(this[index])) {\n   return drop(index + 1)\n   }\n   }\n   return toList()\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.takeWhile(predicate: (UInt) -> Boolean): List<UInt> {\n   val list = ArrayList<UInt>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.takeWhile(predicate: (ULong) -> Boolean): List<ULong> {\n   val list = ArrayList<ULong>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.takeWhile(predicate: (UByte) -> Boolean): List<UByte> {\n   val list = ArrayList<UByte>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n * Returns a list containing first elements satisfying the given [predicate].\n * \n * @sample samples.collections.Collections.Transformations.take\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.takeWhile(predicate: (UShort) -> Boolean): List<UShort> {\n   val list = ArrayList<UShort>()\n   for (item in this) {\n   if (!predicate(item))\n   break\n   list.add(item)\n   }\n   return list\n}\n\n/**\n *

Reverses elements in the array in-place.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses
elements in the array in-place.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Reverses elements in the array in-place.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reverse(): Unit {\n storage.reverse()\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.reversed(): List<UInt> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic
fun ULongArray.reversed(): List<ULong> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n
list.reverse()\n return list\n}\n\n/**\n * Returns a list with elements in reversed order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.reversed(): List<UByte> {\n
if (isEmpty()) return emptyList()\n val list = toMutableList()\n list.reverse()\n return list\n}\n\n/**\n * Returns
a list with elements in reversed order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun
UShortArray.reversed(): List<UShort> {\n if (isEmpty()) return emptyList()\n val list = toMutableList()\n
list.reverse()\n return list\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reversedArray(): UIntArray {\n return UIntArray(storage.reversedArray())\n}\n\n/**\n *
Returns an array with elements of this array in reversed order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reversedArray(): ULongArray {\n return ULongArray(storage.reversedArray())\n}\n\n/**\n *
Returns an array with elements of this array in reversed order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reversedArray(): UByteArray {\n return UByteArray(storage.reversedArray())\n}\n\n/**\n * Returns an array with elements of this array in reversed order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reversedArray(): UShortArray {\n return UShortArray(storage.reversedArray())\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortDescending():
Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun
UByteArray.sortDescending(): Unit {\n if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Sorts elements in the array in-place descending according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortDescending(): Unit {\n
if (size > 1) {\n sort()\n reverse()\n }\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic
fun UIntArray.sorted(): List<UInt> {\n return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sorted(): List<ULong> {\n
return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sorted():

List<UByte> {\n   return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns a list of all elements sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sorted(): List<UShort> {\n   return copyOf().apply { sort() }.asList()\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArray(): UIntArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArray(): ULongArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArray(): UByteArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArray(): UShortArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sort() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedArrayDescending(): UIntArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedArrayDescending(): ULongArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedArrayDescending(): UByteArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns an array with all elements of this array sorted descending according to their natural sort order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedArrayDescending(): UShortArray {\n   if (isEmpty()) return this\n   return this.copyOf().apply { sortDescending() }\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sortedDescending(): List<UInt> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sortedDescending(): List<ULong> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sortedDescending(): List<UByte> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns a list of all elements sorted descending according to their natural sort order.\n * \n * The sort is _stable_. It means that equal elements preserve their order relative to each other after sorting.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sortedDescending(): List<UShort> {\n   return copyOf().apply { sort() }.reversed()\n}\n\n/**\n * Returns an array of type [ByteArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.asByteArray(): ByteArray {\n   return storage\n}\n\n/**\n * Returns an array of type [IntArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this

array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.asIntArray(): IntArray {\n   return storage\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UIntArray.asList(): List<UInt>\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun ULongArray.asList(): List<ULong>\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UByteArray.asList(): List<UByte>\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic expect fun UShortArray.asList(): List<UShort>\n\n/**\n * Returns an array of type [LongArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.asLongArray(): LongArray {\n   return storage\n}\n\n/**\n * Returns an array of type [ShortArray], which is a view of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.asShortArray(): ShortArray {\n   return storage\n}\n\n/**\n * Returns an array of type [UByteArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.asUByteArray(): UByteArray {\n   return UByteArray(this)\n}\n\n/**\n * Returns an array of type [UIntArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.asUIntArray(): UIntArray {\n   return UIntArray(this)\n}\n\n/**\n * Returns an array of type [ULongArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.asULongArray(): ULongArray {\n   return ULongArray(this)\n}\n\n/**\n * Returns an array of type [UShortArray], which is a view of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.asUShortArray(): UShortArray {\n   return UShortArray(this)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.contentEquals(other: UIntArray): Boolean {\n   return storage.contentEquals(other.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.contentEquals(other: ULongArray): Boolean {\n   return storage.contentEquals(other.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.contentEquals(other: UByteArray): Boolean {\n   return storage.contentEquals(other.storage)\n}\n\n/**\n * Returns `true` if the two specified arrays are *structurally* equal to one another,\n * i.e. contain the same number of the same elements in the same order.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.contentEquals(other: UShortArray): Boolean {\n   return storage.contentEquals(other.storage)\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic

fun UIntArray.contentHashCode(): Int {\n   return storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic
 fun ULongArray.contentHashCode(): Int {\n   return storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentHashCode(): Int {\n return storage.contentHashCode()\n}\n\n/**\n * Returns a hash code based on the contents of this array as if it is [List].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentHashCode(): Int {\n   return storage.contentHashCode()\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.contentToString(): String {\n return joinToString(\", \", \"[\", \"]\")\n}\n\n/**\n * Returns a string representation of the contents of the specified
 array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.contentToString(): String {\n return joinToString(\", \", \"[\", \"]\")\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.contentToString(): String {\n return joinToString(\", \", \"[\", \"]\")\n}\n\n/**\n * Returns a string representation of the contents of the specified array as if it is [List].\n * \n * @sample samples.collections.Arrays.ContentOperations.contentToString\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.contentToString(): String {\n return joinToString(\", \", \"[\", \"]\")\n}\n\n/**\n * Copies this array or its subrange into the [destination]
 array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun UIntArray.copyInto(destination: UIntArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UIntArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices
 or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyInto(destination: ULongArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): ULongArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the

destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to
copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyInto(destination: UByteArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UByteArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Copies
this array or its subrange into the [destination] array and returns that array.\n * \n * It's allowed to pass the same array in the [destination] and even specify the subrange so that it overlaps with the destination range.\n * \n * @param destination the array to copy to.\n * @param destinationOffset the position in the [destination] array to copy to, 0 by default.\n * @param startIndex the beginning (inclusive) of the subrange to copy, 0 by default.\n * @param endIndex the end (exclusive) of the subrange to copy, size of this array by default.\n * \n * @throws IndexOutOfBoundsException or [IllegalArgumentException] when [startIndex] or [endIndex] is out of range of this array indices or when `startIndex > endIndex`.\n * @throws IndexOutOfBoundsException when the subrange doesn't fit into the [destination] array starting at the specified [destinationOffset],\n * or when that index is out of the [destination] array indices range.\n * \n * @return the [destination] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UShortArray.copyInto(destination: UShortArray, destinationOffset: Int = 0, startIndex: Int = 0, endIndex: Int = size): UShortArray {\n   storage.copyInto(destination.storage, destinationOffset, startIndex, endIndex)\n   return destination\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOf(): UIntArray {\n   return UIntArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.copyOf(): ULongArray {\n   return ULongArray(storage.copyOf())\n}\n\n/**\n * Returns new array
which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyOf(): UByteArray {\n   return UByteArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array.\n * \n * @sample samples.collections.Arrays.CopyOfOperations.copyOf\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.copyOf(): UShortArray {\n   return UShortArray(storage.copyOf())\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOf(newSize: Int): UIntArray {\n   return UIntArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

ULongArray.copyOf(newSize: Int): ULongArray {\n   return ULongArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated
 or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyOf(newSize: Int): UByteArray {\n   return UByteArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns new array which is a copy of the original array, resized to the given [newSize].\n * The copy is either truncated or padded at the end with zero values if necessary.\n * \n * - If [newSize] is less than the size of the original array, the copy array is truncated to the [newSize].\n * - If [newSize] is greater than the size of the original array, the extra elements in the copy array are filled with zero values.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun UShortArray.copyOf(newSize: Int): UShortArray {\n   return
UShortArray(storage.copyOf(newSize))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.copyOfRange(fromIndex: Int, toIndex: Int): UIntArray {\n   return
UIntArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun ULongArray.copyOfRange(fromIndex: Int, toIndex: Int): ULongArray {\n   return
ULongArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.copyOfRange(fromIndex: Int, toIndex: Int): UByteArray {\n   return
UByteArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Returns a new array which is a copy of the specified range of the original array.\n * \n * @param fromIndex the start of the range (inclusive), must be in `0..array.size`\n * @param toIndex the end of the range (exclusive), must be in `fromIndex..array.size`\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
 inline fun UShortArray.copyOfRange(fromIndex: Int, toIndex: Int): UShortArray {\n   return
UShortArray(storage.copyOfRange(fromIndex, toIndex))\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.fill(element: UInt, fromIndex: Int = 0, toIndex: Int = size): Unit {\n   storage.fill(element.toInt(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex
 the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.fill(element: ULong, fromIndex: Int = 0, toIndex: Int = size): Unit {\n   storage.fill(element.toLong(), fromIndex, toIndex)\n}\n\n/**\n *

Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.fill(element: UByte, fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toByte(), fromIndex, toIndex)\n}\n\n/**\n * Fills this array or its subrange with the specified [element] value.\n * \n * @param fromIndex the start of the range (inclusive), 0 by default.\n * @param toIndex the end of the range (exclusive), size of this array by default.\n * \n * @throws IndexOutOfBoundsException if [fromIndex] is less than zero or [toIndex] is greater than the size of this array.\n * @throws IllegalArgumentException if [fromIndex] is greater than [toIndex].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.fill(element: UShort, fromIndex: Int = 0, toIndex: Int = size): Unit {\n storage.fill(element.toShort(), fromIndex, toIndex)\n}\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.indices: IntRange\n get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.indices: IntRange\n get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.indices: IntRange\n get() = storage.indices\n\n/**\n * Returns the range of valid indices for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.indices: IntRange\n get() = storage.indices\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UIntArray.lastIndex: Int\n get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val ULongArray.lastIndex: Int\n get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UByteArray.lastIndex: Int\n get() = storage.lastIndex\n\n/**\n * Returns the last valid index for the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic inline val UShortArray.lastIndex: Int\n get() = storage.lastIndex\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.plus(element: UInt): UIntArray {\n return UIntArray(storage + element.toInt())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.plus(element: ULong): ULongArray {\n return ULongArray(storage + element.toLong())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.plus(element: UByte): UByteArray {\n return UByteArray(storage + element.toByte())\n}\n\n/**\n * Returns an array containing all elements of the original array and then the given [element].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.plus(element: UShort): UShortArray {\n return UShortArray(storage + element.toShort())\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UIntArray.plus(elements: Collection<UInt>): UIntArray {\n var index = size\n val result = storage.copyOf(size + elements.size)\n for (element in elements) result[index++] = element.toInt()\n return UIntArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic

operator fun ULongArray.plus(elements: Collection<ULong>): ULongArray {\n   var index = size\n   val result = storage.copyOf(size + elements.size)\n   for (element in elements) result[index++] = element.toLong()\n   return ULongArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UByteArray.plus(elements: Collection<UByte>): UByteArray {\n   var index = size\n   val result = storage.copyOf(size + elements.size)\n   for (element in elements) result[index++] = element.toByte()\n   return UByteArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UShortArray.plus(elements: Collection<UShort>): UShortArray {\n   var index = size\n   val result = storage.copyOf(size + elements.size)\n   for (element in elements) result[index++] = element.toShort()\n   return UShortArray(result)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntArray.plus(elements: UIntArray): UIntArray {\n   return UIntArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongArray.plus(elements: ULongArray): ULongArray {\n   return ULongArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UByteArray.plus(elements: UByteArray): UByteArray {\n   return UByteArray(storage + elements.storage)\n}\n\n/**\n * Returns an array containing all elements of the original array and then all elements of the given [elements] array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UShortArray.plus(elements: UShortArray): UShortArray {\n   return UShortArray(storage + elements.storage)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.sort(): Unit {\n   if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.sort(): Unit {\n   if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.sort(): Unit {\n   if (size > 1) sortArray(this)\n}\n\n/**\n * Sorts the array in-place.\n * \n * @sample samples.collections.Arrays.Sorting.sortArray\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.sort(): Unit {\n   if (size > 1) sortArray(this)\n}\n\n/**\n * Returns an array of type [ByteArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.toByteArray(): ByteArray {\n   return storage.copyOf()\n}\n\n/**\n * Returns an array of type [IntArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.toIntArray(): IntArray {\n   return storage.copyOf()\n}\n\n/**\n * Returns an array of type [LongArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.toLongArray(): LongArray {\n   return storage.copyOf()\n}\n\n/**\n * Returns an array of type [ShortArray], which is a copy of this array where each element is a signed reinterpretation\n * of the corresponding element of this array.\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.toShortArray(): ShortArray {\n   return storage.copyOf()\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.toTypedArray(): Array<UInt> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.toTypedArray(): Array<ULong> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.toTypedArray(): Array<UByte> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns a *typed* object array containing all of the elements of this primitive array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.toTypedArray(): Array<UShort> {\n   return Array(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of UByte containing all of the elements of this generic array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UByte>.toUByteArray(): UByteArray {\n   return UByteArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UByteArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ByteArray.toUByteArray(): UByteArray {\n   return UByteArray(this.copyOf())\n}\n\n/**\n * Returns an array of UInt containing all of the elements of this generic array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UInt>.toUIntArray(): UIntArray {\n   return UIntArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UIntArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun IntArray.toUIntArray(): UIntArray {\n   return UIntArray(this.copyOf())\n}\n\n/**\n * Returns an array of ULong containing all of the elements of this generic array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out ULong>.toULongArray(): ULongArray {\n   return ULongArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [ULongArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun LongArray.toULongArray(): ULongArray {\n   return ULongArray(this.copyOf())\n}\n\n/**\n * Returns an array of UShort containing all of the elements of this generic array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UShort>.toUShortArray(): UShortArray {\n   return UShortArray(size) { index -> this[index] }\n}\n\n/**\n * Returns an array of type [UShortArray], which is a copy of this array where each element is an unsigned reinterpretation\n * of the corresponding element of this array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ShortArray.toUShortArray(): UShortArray {\n   return UShortArray(this.copyOf())\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.flatMap(transform: (UInt) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.flatMap(transform: (ULong) -> Iterable<R>): List<R> {\n   return flatMapTo(ArrayList<R>(),

transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.flatMap(transform: (UByte) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Returns a single list of all elements yielded from results of [transform] function being invoked on each element of original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.flatMap(transform: (UShort) -> Iterable<R>): List<R> {\n return flatMapTo(ArrayList<R>(), transform)\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.flatMapTo(destination: C, transform: (UInt) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.flatMapTo(destination: C, transform: (ULong) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.flatMapTo(destination: C, transform: (UByte) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Appends all elements yielded from results of [transform] function being invoked on each element of original array, to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.flatMapTo(destination: C, transform: (UShort) -> Iterable<R>): C {\n for (element in this) {\n val list = transform(element)\n destination.addAll(list)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UIntArray.groupBy(keySelector: (UInt) -> K): Map<K, List<UInt>> {\n return groupByTo(LinkedHashMap<K, MutableList<UInt>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> ULongArray.groupBy(keySelector: (ULong) -> K): Map<K, List<ULong>> {\n return groupByTo(LinkedHashMap<K, MutableList<ULong>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K>

UByteArray.groupBy(keySelector: (UByte) -> K): Map<K, List<UByte>>
{\n return groupByTo(LinkedHashMap<K, MutableList<UByte>>(), keySelector)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and returns a map where each group key is associated with a list of corresponding elements.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K> UShortArray.groupBy(keySelector: (UShort) -> K): Map<K, List<UShort>> {\n return groupByTo(LinkedHashMap<K, MutableList<UShort>>(), keySelector)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> UIntArray.groupBy(keySelector: (UInt) -> K, valueTransform: (UInt) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> ULongArray.groupBy(keySelector: (ULong) -> K, valueTransform: (ULong) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> UByteArray.groupBy(keySelector: (UByte) -> K, valueTransform: (UByte) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and returns a map where each group key is associated with a list of corresponding values.\n * \n * The returned map preserves the entry iteration order of the keys produced from the original array.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V> UShortArray.groupBy(keySelector: (UShort) -> K, valueTransform: (UShort) -> V): Map<K, List<V>> {\n return groupByTo(LinkedHashMap<K, MutableList<V>>(), keySelector, valueTransform)\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element\n * and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UInt>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<UInt>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the

original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<ULong>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<ULong>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UByte>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<UByte>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups elements of the original array by the key returned by the given [keySelector] function\n * applied to each element and puts to the [destination] map each group key associated with a list of corresponding elements.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, M : MutableMap<in K, MutableList<UShort>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<UShort>() }\n list.add(element)\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UIntArray.groupByTo(destination: M, keySelector: (UInt) -> K, valueTransform: (UInt) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> ULongArray.groupByTo(destination: M, keySelector: (ULong) -> K, valueTransform: (ULong) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UByteArray.groupByTo(destination: M, keySelector: (UByte) -> K, valueTransform: (UByte) -> V): M {\n for (element in this) {\n val key = keySelector(element)\n val list = destination.getOrPut(key) { ArrayList<V>() }\n list.add(valueTransform(element))\n }\n return

destination\n}\n\n/**\n * Groups values returned by the [valueTransform] function applied to each element of the original array\n * by the key returned by the given [keySelector] function applied to the element\n * and puts to the [destination] map each group key associated with a list of corresponding values.\n * \n * @return The [destination] map.\n * \n * @sample samples.collections.Collections.Transformations.groupByKeysAndValues\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <K, V, M : MutableMap<in K, MutableList<V>>> UShortArray.groupByTo(destination: M, keySelector: (UShort) -> K, valueTransform: (UShort) -> V): M {\n   for (element in this) {\n   val key = keySelector(element)\n   val list = destination.getOrPut(key) { ArrayList<V>() }\n   list.add(valueTransform(element))\n   }\n   return destination\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.map(transform: (UInt) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.map(transform: (ULong) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.map(transform: (UByte) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element in the original array.\n * \n * @sample samples.collections.Collections.Transformations.map\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.map(transform: (UShort) -> R): List<R> {\n   return mapTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.mapIndexed(transform: (index: Int, UInt) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.mapIndexed(transform: (index: Int, ULong) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.mapIndexed(transform: (index: Int, UByte) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Returns a list containing the results of applying the given [transform] function\n * to each element and its index in the original array.\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result\n of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.mapIndexed(transform: (index: Int, UShort) -> R): List<R> {\n   return mapIndexedTo(ArrayList<R>(size), transform)\n}\n\n/**\n * Applies the given [transform] function to each

element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.mapIndexedTo(destination: C, transform: (index: Int, UInt) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.mapIndexedTo(destination: C, transform: (index: Int, ULong) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.mapIndexedTo(destination: C, transform: (index: Int, UByte) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element and its index in the original array\n * and appends the results to the given [destination].\n * @param [transform] function that takes the index of an element and the element itself\n * and returns the result of the transform applied to the element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.mapIndexedTo(destination: C, transform: (index: Int, UShort) -> R): C {\n var index = 0\n for (item in this)\n destination.add(transform(index++, item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UIntArray.mapTo(destination: C, transform: (UInt) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> ULongArray.mapTo(destination: C, transform: (ULong) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UByteArray.mapTo(destination: C, transform: (UByte) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Applies the given [transform] function to each element of the original array\n * and appends the results to the given [destination].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, C : MutableCollection<in R>> UShortArray.mapTo(destination: C, transform: (UShort) -> R): C {\n for (item in this)\n destination.add(transform(item))\n return destination\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.withIndex(): Iterable<IndexedValue<UInt>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.withIndex(): Iterable<IndexedValue<ULong>> {\n return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable] that wraps each element of the original array\n * into an [IndexedValue]

containing the index of that element and the element itself.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.withIndex():
Iterable<IndexedValue<UByte>> {\n   return IndexingIterable { iterator() }\n}\n\n/**\n * Returns a lazy [Iterable]
that wraps each element of the original array\n * into an [IndexedValue] containing the index of that element and the
element itself.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.withIndex():
Iterable<IndexedValue<UShort>> {\n   return IndexingIterable
{ iterator() }\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.all(predicate: (UInt) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return
false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.all(predicate: (ULong) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return
false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.all\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun UByteArray.all(predicate: (UByte) -> Boolean): Boolean {\n   for (element in this) if
(!predicate(element)) return false\n   return true\n}\n\n/**\n * Returns `true` if all elements match the given
[predicate].\n * \n * @sample samples.collections.Collections.Aggregates.all\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.all(predicate: (UShort) -> Boolean): Boolean {\n   for (element in this) if (!predicate(element)) return
false\n   return true\n}\n\n/**\n * Returns `true` if array has at least one element.\n * \n * @sample
samples.collections.Collections.Aggregates.any\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.any(): Boolean {\n   return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one element.\n
* \n * @sample samples.collections.Collections.Aggregates.any\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULongArray.any(): Boolean {\n   return storage.any()\n}\n\n/**\n * Returns `true` if array has at least
one element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.any(): Boolean {\n   return storage.any()\n}\n\n/**\n * Returns `true` if array has at least one
element.\n * \n * @sample samples.collections.Collections.Aggregates.any\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UShortArray.any(): Boolean {\n   return storage.any()\n}\n\n/**\n * Returns `true` if at least one element matches
the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UIntArray.any(predicate: (UInt) -> Boolean):
Boolean {\n   for (element in this) if (predicate(element)) return true\n   return false\n}\n\n/**\n * Returns `true` if
at least one element matches the given [predicate].\n * \n * @sample
samples.collections.Collections.Aggregates.anyWithPredicate\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
ULongArray.any(predicate: (ULong) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return
true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *
@sample samples.collections.Collections.Aggregates.anyWithPredicate\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
UByteArray.any(predicate: (UByte) -> Boolean): Boolean {\n   for (element in this) if (predicate(element)) return
true\n   return false\n}\n\n/**\n * Returns `true` if at least one element matches the given [predicate].\n * \n *

@sample samples.collections.Collections.Aggregates.anyWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.any(predicate: (UShort) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return true\n return false\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.count(predicate: (UInt) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.count(predicate: (ULong) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.count(predicate: (UByte) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Returns the number of elements matching the given [predicate].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.count(predicate: (UShort) -> Boolean): Int {\n var count = 0\n for (element in this) if (predicate(element)) ++count\n return count\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.fold(initial: R, operation: (acc: R, UInt) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.fold(initial: R, operation: (acc: R, ULong) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UByteArray.fold(initial: R, operation: (acc: R, UByte) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UShortArray.fold(initial: R, operation: (acc: R, UShort) -> R): R {\n var accumulator = initial\n for (element in this) accumulator = operation(accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldIndexed(initial: R, operation: (index: Int, acc: R, UInt) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.foldIndexed(initial: R, operation: (index: Int, acc: R, ULong) -> R): R {\n var index = 0\n var accumulator = initial\n for (element in this) accumulator = operation(index++, accumulator, element)\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from left to

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inline fun <R> UShortArray.foldRight(initial: R, operation: (UShort, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(get(index--), accumulator)\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> UIntArray.foldRightIndexed(initial: R, operation: (index: Int, UInt, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial] value and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R> ULongArray.foldRightIndexed(initial: R, operation: (index: Int, ULong, acc: R) -> R): R {\n var index = lastIndex\n var accumulator = initial\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with [initial]

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return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.max(): ULong? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.max(): UByte? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the largest element or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.max(): UShort? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (max < e) max = e\n }\n return max\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UIntArray.maxBy(selector: (UInt) -> R): UInt? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> ULongArray.maxBy(selector: (ULong) -> R): ULong? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UByteArray.maxBy(selector: (UByte) -> R): UByte? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element yielding the largest value of the given function or `null` if there are no elements.\n * \n * @sample samples.collections.Collections.Aggregates.maxBy\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R : Comparable<R>> UShortArray.maxBy(selector: (UShort) -> R): UShort? {\n if (isEmpty()) return null\n var maxElem = this[0]\n val lastIndex = this.lastIndex\n if (lastIndex == 0) return maxElem\n var maxValue = selector(maxElem)\n for (i in 1..lastIndex) {\n val e = this[i]\n val v = selector(e)\n if (maxValue < v) {\n maxElem = e\n maxValue = v\n }\n }\n return maxElem\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.maxWith(comparator: Comparator<in UInt>): UInt? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.maxWith(comparator: Comparator<in ULong>): ULong? {\n if (isEmpty()) return null\n var max = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(max, e) < 0) max = e\n }\n return max\n}\n\n/**\n * Returns the first element having the largest value according to the provided [comparator] or `null` if there are no elements.\n

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element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntArray.minWith(comparator: Comparator<in UInt>): UInt? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongArray.minWith(comparator: Comparator<in ULong>): ULong? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByteArray.minWith(comparator: Comparator<in UByte>): UByte? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns the first element having the smallest value according to the provided [comparator] or `null` if there are no elements.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShortArray.minWith(comparator: Comparator<in UShort>): UShort? {\n if (isEmpty()) return null\n var min = this[0]\n for (i in 1..lastIndex) {\n val e = this[i]\n if (comparator.compare(min, e) > 0) min = e\n }\n return min\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if the array has no elements.\n * \n * @sample samples.collections.Collections.Aggregates.none\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.none(): Boolean {\n return isEmpty()\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.none(predicate: (UInt) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.none(predicate: (ULong) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.none(predicate: (UByte) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Returns `true` if no elements match the given [predicate].\n * \n * @sample samples.collections.Collections.Aggregates.noneWithPredicate\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.none(predicate: (UShort) -> Boolean): Boolean {\n for (element in this) if (predicate(element)) return false\n return true\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

UIntArray.reduce(operation: (acc: UInt, UInt) -> UInt): UInt {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduce(operation: (acc: ULong, ULong) -> ULong): ULong {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduce(operation: (acc: UByte, UByte) -> UByte): UByte {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right to current accumulator value and each element.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduce(operation: (acc: UShort, UShort) -> UShort): UShort {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceIndexed(operation: (index: Int, acc: UInt, UInt) -> UInt): UInt {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceIndexed(operation: (index: Int, acc: ULong, ULong) -> ULong): ULong {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index, accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceIndexed(operation: (index: Int, acc: UByte, UByte) -> UByte): UByte {\n if (isEmpty())\n throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = this[0]\n for (index in 1..lastIndex) {\n accumulator = operation(index,\n accumulator, this[index])\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with the first element and applying [operation] from left to right\n * to current accumulator value and each element with its index in the original array.\n * @param [operation] function that takes the index of an element, current accumulator value\n * and the element itself and calculates the next accumulator value.\n

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 current accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRight(operation: (UInt, acc: UInt) -> UInt): UInt {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left to each element and current accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.reduceRight(operation: (ULong, acc: ULong) -> ULong): ULong {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator
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*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRight(operation: (UShort, acc: UShort) -> UShort): UShort {\n
    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n        accumulator = operation(get(index--), accumulator)\n    }\n    return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.reduceRightIndexed(operation: (index: Int, UInt, acc: UInt) -> UInt): UInt {\n    var index = lastIndex\n    if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n    var accumulator = get(index--)\n    while (index >= 0) {\n
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last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param [operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.reduceRightIndexed(operation: (index: Int, UByte, acc: UByte) -> UByte): UByte {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Accumulates value starting with last element and applying [operation] from right to left\n * to each element with its index in the original array and current accumulator value.\n * @param
[operation] function that takes the index of an element, the element itself\n * and current accumulator value, and calculates the next accumulator value.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.reduceRightIndexed(operation: (index: Int, UShort, acc: UShort) -> UShort): UShort {\n var index = lastIndex\n if (index < 0) throw UnsupportedOperationException(\"Empty array can't be reduced.\")\n var accumulator = get(index--)\n while (index >= 0) {\n accumulator = operation(index, get(index), accumulator)\n --index\n }\n return accumulator\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumBy(selector: (UInt) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumBy(selector: (ULong) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumBy(selector: (UByte) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline
fun UShortArray.sumBy(selector: (UShort) -> UInt): UInt {\n var sum: UInt = 0u\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sumByDouble(selector: (UInt) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sumByDouble(selector: (ULong) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced
by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sumByDouble(selector: (UByte) -> Double): Double {\n var sum: Double = 0.0\n for (element in this) {\n sum += selector(element)\n }\n return sum\n}\n\n/**\n * Returns the sum of all values produced by [selector] function applied to each element in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun

UShortArray.sumByDouble(selector: (UShort) -> Double): Double {\n   var sum: Double = 0.0\n   for (element in this) {\n   sum += selector(element)\n   }\n   return sum\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Array<out R>): List<Pair<UInt, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other: Array<out R>): List<Pair<ULong, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Array<out R>): List<Pair<UByte, R>>\n {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other: Array<out R>): List<Pair<UShort, R>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UIntArray.zip(other: Array<out R>, transform: (a: UInt, b:\n R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> ULongArray.zip(other: Array<out R>, transform: (a: ULong, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other]\n array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UByteArray.zip(other: Array<out R>, transform: (a: UByte, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic\n inline fun <R, V> UShortArray.zip(other: Array<out R>, transform: (a: UShort, b: R) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of pairs built from the elements

of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UIntArray.zip(other: Iterable<R>): List<Pair<UInt, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> ULongArray.zip(other: Iterable<R>): List<Pair<ULong, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UByteArray.zip(other: Iterable<R>): List<Pair<UByte, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` collection and [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun <R> UShortArray.zip(other: Iterable<R>): List<Pair<UShort, R>> {\n return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UIntArray.zip(other: Iterable<R>, transform: (a: UInt, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> ULongArray.zip(other: Iterable<R>, transform: (a: ULong, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UByteArray.zip(other: Iterable<R>, transform: (a: UByte, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] collection with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <R, V> UShortArray.zip(other: Iterable<R>, transform: (a: UShort, b: R) -> V): List<V> {\n val arraySize = size\n val list = ArrayList<V>(minOf(other.collectionSizeOrDefault(10), arraySize))\n var i = 0\n for (element in other) {\n if (i >= arraySize) break\n list.add(transform(this[i++], element))\n }\n return list\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UIntArray.zip(other: UIntArray): List<Pair<UInt, UInt>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULongArray.zip(other: ULongArray): List<Pair<ULong, ULong>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UByteArray.zip(other: UByteArray): List<Pair<UByte, UByte>> {\n   return zip(other) { t1, t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of pairs built from the elements of `this` array and the [other] array with the same index.\n * The returned list has length of the shortest collection.\n * \n * @sample samples.collections.Iterables.Operations.zipIterable\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UShortArray.zip(other: UShortArray): List<Pair<UShort, UShort>> {\n   return zip(other) { t1,\n t2 -> t1 to t2 }\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UIntArray.zip(other: UIntArray, transform: (a: UInt, b: UInt) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> ULongArray.zip(other: ULongArray, transform: (a: ULong, b: ULong) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UByteArray.zip(other: UByteArray, transform: (a: UByte, b: UByte) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns a list of values built from the elements of `this` array and the [other] array with the same index\n * using the provided [transform] function applied to each pair of elements.\n * The returned list has length of the shortest array.\n * \n * @sample samples.collections.Iterables.Operations.zipIterableWithTransform\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun <V> UShortArray.zip(other: UShortArray, transform: (a: UShort, b: UShort) -> V): List<V> {\n   val size = minOf(size, other.size)\n   val list = ArrayList<V>(size)\n   for (i in 0 until size) {\n   list.add(transform(this[i], other[i]))\n   }\n   return list\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UInt>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun

Array<out ULong>.sum(): ULong {\n   var sum: ULong = 0uL\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UByte>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Array<out UShort>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntArray.sum(): UInt {\n   return storage.sum().toUInt()\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongArray.sum(): ULong {\n   return storage.sum().toULong()\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByteArray.sum(): UInt {\n   return sumBy { it.toUInt() }\n}\n\n/**\n * Returns the sum of all elements in the array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShortArray.sum(): UInt {\n   return sumBy { it.toUInt() }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UCollectionsKt\")\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an array of UByte containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<UByte>.toUByteArray(): UByteArray {\n   val result = UByteArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of UInt containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<UInt>.toUIntArray(): UIntArray {\n   val result = UIntArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of ULong containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<ULong>.toULongArray(): ULongArray {\n   val result = ULongArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns an array of UShort containing all of the elements of this collection.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Collection<UShort>.toUShortArray(): UShortArray {\n   val result = UShortArray(size)\n   var index = 0\n   for (element in this)\n   result[index++] = element\n   return result\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Iterable<UInt>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Iterable<ULong>.sum(): ULong {\n   var sum: ULong = 0uL\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Iterable<UByte>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the collection.\n */\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Iterable<UShort>.sum(): UInt {\n   var sum: UInt = 0u\n   for

(element in this) {\n sum += element\n }\n return sum\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"UComparisonsKt\")\n\npackage kotlin.comparisons\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UInt, b: UInt): UInt {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: ULong, b: ULong): ULong {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UByte, b: UByte): UByte {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun maxOf(a: UShort, b: UShort): UShort {\n return if (a >= b) a else b\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UInt, b: UInt, c: UInt): UInt {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: ULong, b: ULong, c: ULong): ULong {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UByte, b: UByte, c: UByte): UByte {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the greater of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun maxOf(a: UShort, b: UShort, c: UShort): UShort {\n return maxOf(a, maxOf(b, c))\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UInt, b: UInt): UInt {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: ULong, b: ULong): ULong {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UByte, b: UByte): UByte {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun minOf(a: UShort, b: UShort): UShort {\n return if (a <= b) a else b\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: UInt, b: UInt, c: UInt): UInt {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: ULong, b: ULong, c: ULong): ULong {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: UByte, b: UByte, c: UByte): UByte {\n return minOf(a, minOf(b, c))\n}\n\n/**\n * Returns the smaller of three values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun minOf(a: UShort, b: UShort, c: UShort): UShort {\n return minOf(a, minOf(b, c))\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"URangesKt\")\n\npackage kotlin.ranges\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.*\n\n/**\n * Returns a

random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UIntRange.random(): UInt {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this range.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange.random(): ULong {\n   return random(Random)\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntRange.random(random: Random): UInt {\n   try {\n   return random.nextUInt(this)\n   } catch(e: IllegalArgumentException) {\n   throw NoSuchElementException(e.message)\n   }\n}\n\n/**\n * Returns a random element from this range using the specified source of randomness.\n * \n * @throws IllegalArgumentException if this range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongRange.random(random: Random): ULong {\n   try {\n   return random.nextULong(this)\n   } catch(e: IllegalArgumentException) {\n   throw NoSuchElementException(e.message)\n   }\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun UIntRange.contains(element: UInt?): Boolean {\n   return element != null && contains(element)\n}\n\n/**\n * Returns `true` if this range contains the specified [element].\n * \n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline operator fun ULongRange.contains(element: ULong?): Boolean {\n   return element != null && contains(element)\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UIntRange.contains(value: UByte): Boolean {\n   return contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value: UByte): Boolean {\n   return contains(value.toULong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value: UInt): Boolean {\n   return contains(value.toULong())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UIntRange.contains(value: ULong): Boolean {\n   return (value shr UInt.SIZE_BITS) == 0uL && contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun UIntRange.contains(value: UShort): Boolean {\n   return contains(value.toUInt())\n}\n\n/**\n * Checks if the specified [value] belongs to this range.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic operator fun ULongRange.contains(value: UShort): Boolean {\n   return contains(value.toULong())\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UByte.downTo(to: UByte): UIntProgression {\n   return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UInt.downTo(to: UInt): UIntProgression {\n   return UIntProgression.fromClosedRange(this, to, -1)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If

the [to] value is greater than `this` value the returned progression is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULong.downTo(to: ULong): ULongProgression {\n   return ULongProgression.fromClosedRange(this, to, -1L)\n}\n\n/**\n * Returns a progression from this value down to the specified [to] value with the step -1.\n * \n * The [to] value should be less than or equal to `this` value.\n * If the [to] value is greater than `this` value the returned progression is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UShort.downTo(to: UShort): UIntProgression {\n   return UIntProgression.fromClosedRange(this.toUInt(), to.toUInt(), -1)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UIntProgression.reversed(): UIntProgression {\n   return UIntProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range in the opposite direction with the same step.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULongProgression.reversed(): ULongProgression {\n   return ULongProgression.fromClosedRange(last, first, -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UIntProgression.step(step: Int): UIntProgression {\n   checkStepIsPositive(step > 0, step)\n   return UIntProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a progression that goes over the same range with the given step.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULongProgression.step(step: Long): ULongProgression {\n   checkStepIsPositive(step > 0, step)\n   return ULongProgression.fromClosedRange(first, last, if (this.step > 0) step else -step)\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UByte.until(to: UByte): UIntRange {\n   if (to <= UByte.MIN_VALUE) return UIntRange.EMPTY\n   return this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UInt.until(to: UInt): UIntRange {\n   if (to <= UInt.MIN_VALUE) return UIntRange.EMPTY\n   return this .. (to - 1u).toUInt()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun ULong.until(to: ULong): ULongRange {\n   if (to <= ULong.MIN_VALUE) return ULongRange.EMPTY\n   return this .. (to - 1u).toULong()\n}\n\n/**\n * Returns a range from this value up to but excluding the specified [to] value.\n * \n * If the [to] value is less than or equal to `this` value, then the returned range is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic infix fun UShort.until(to: UShort): UIntRange {\n   if (to <= UShort.MIN_VALUE) return UIntRange.EMPTY\n   return this.toUInt() .. (to - 1u).toUInt()\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceAtLeast(minimumValue: UInt): UInt {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceAtLeast(minimumValue: ULong): ULong {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceAtLeast(minimumValue: UByte): UByte {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not less than the specified
 [minimumValue].\n * \n * @return this value if it's greater than or equal to the [minimumValue] or the [minimumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtLeastUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceAtLeast(minimumValue: UShort): UShort {\n   return if (this < minimumValue) minimumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceAtMost(maximumValue: UInt): UInt {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue]
 or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceAtMost(maximumValue: ULong): ULong {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceAtMost(maximumValue: UByte): UByte {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value is not greater than the specified [maximumValue].\n * \n * @return this value if it's less than or equal to the [maximumValue] or the [maximumValue] otherwise.\n * \n * @sample samples.comparisons.ComparableOps.coerceAtMostUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceAtMost(maximumValue: UShort): UShort {\n   return if (this > maximumValue) maximumValue else this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceIn(minimumValue: UInt, maximumValue: UInt): UInt {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range
 [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceIn(minimumValue: ULong, maximumValue: ULong): ULong {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n

*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UByte.coerceIn(minimumValue: UByte, maximumValue: UByte): UByte {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified range [minimumValue]..[maximumValue].\n * \n * @return this value if it's in the range, or [minimumValue] if this value is less than [minimumValue], or [maximumValue] if this value is greater than [maximumValue].\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UShort.coerceIn(minimumValue: UShort, maximumValue: UShort): UShort {\n   if (minimumValue > maximumValue) throw IllegalArgumentException(\"Cannot coerce value to an empty range: maximum $maximumValue is less than minimum $minimumValue.\")\n   if (this < minimumValue) return minimumValue\n   if (this > maximumValue) return maximumValue\n   return this\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun UInt.coerceIn(range: ClosedRange<UInt>): UInt {\n   if (range is ClosedFloatingPointRange) {\n   return this.coerceIn<UInt>(range)\n   }\n   if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n   return when {\n   this < range.start -> range.start\n   this > range.endInclusive -> range.endInclusive\n   else -> this\n   }\n}\n\n/**\n * Ensures that this value lies in the specified [range].\n * \n * @return this value if it's in the [range], or `range.start` if this value is less than `range.start`, or `range.endInclusive` if this value is greater than `range.endInclusive`.\n * \n * @sample samples.comparisons.ComparableOps.coerceInUnsigned\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULong.coerceIn(range: ClosedRange<ULong>): ULong {\n   if (range is ClosedFloatingPointRange) {\n   return this.coerceIn<ULong>(range)\n   }\n   if (range.isEmpty()) throw IllegalArgumentException(\"Cannot coerce value to an empty range: $range.\")\n   return when {\n   this < range.start -> range.start\n   this > range.endInclusive -> range.endInclusive\n   else -> this\n   }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found
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/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"USequencesKt\")\n\npackage kotlin.sequences\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.random.\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfUInt\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Sequence<UInt>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfULong\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Sequence<ULong>.sum(): ULong {\n   var sum: ULong = 0uL\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n
 * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfUByte\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Sequence<UByte>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n/**\n * Returns the sum of all elements in the sequence.\n *\n * The operation is _terminal_.\n */\n@kotlin.jvm.JvmName(\"sumOfUShort\")\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Sequence<UShort>.sum(): UInt {\n   var sum: UInt = 0u\n   for (element in this) {\n   sum += element\n   }\n   return sum\n}\n\n","/*\n * Copyright 2010-2015 JetBrains s.r.o.\n *\n * Licensed under the Apache License,

Version 2.0 (the \"License\");\n * you may not use this file except in compliance with the License.\n * You may obtain a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law
or agreed to in writing, software\n * distributed under the License is distributed on an \"AS IS\" BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language governing permissions and\n * limitations under the License.\n */\n\npackage kotlin.collections\n\nimport kotlin.internal.PlatformDependent\n\n/**\n * Classes that inherit from this interface can be represented as a sequence of elements that can\n * be iterated over.\n * @param T the type of element being iterated over. The iterator is covariant on its element type.\n */\npublic interface Iterable<out T> {\n /**\n * Returns an iterator over the elements of this object.\n */\n public operator fun iterator(): Iterator<T>\n}\n\n/**\n * Classes that inherit from this interface can be represented as a sequence of elements that can\n * be iterated over and that supports removing elements during iteration.\n * @param T the type of element being iterated
over. The mutable iterator is invariant on its element type.\n */\npublic interface MutableIterable<out T> : Iterable<T> {\n /**\n * Returns an iterator over the elements of this sequence that supports removing elements during iteration.\n */\n override fun iterator(): MutableIterator<T>\n}\n\n/**\n * A generic collection of elements. Methods in this interface support only read-only access to the collection;\n * read/write access is supported through the [MutableCollection] interface.\n * @param E the type of elements contained in the collection. The collection is covariant on its element type.\n */\npublic interface Collection<out E> : Iterable<E> {\n // Query Operations\n /**\n * Returns the size of the collection.\n */\n public val size: Int\n\n /**\n * Returns `true` if the collection is empty (contains no elements), `false` otherwise.\n */\n public fun isEmpty(): Boolean\n\n /**\n * Checks if the specified element is contained
in this collection.\n */\n public operator fun contains(element: @UnsafeVariance E): Boolean\n\n override fun iterator(): Iterator<E>\n\n // Bulk Operations\n /**\n * Checks if all elements in the specified collection are contained in this collection.\n */\n public fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n}\n\n/**\n * A generic collection of elements that supports adding and removing elements.\n *\n * @param E the type of elements contained in the collection. The mutable collection is invariant on its element type.\n */\npublic interface MutableCollection<E> : Collection<E>, MutableIterable<E> {\n // Query Operations\n override fun iterator(): MutableIterator<E>\n\n // Modification Operations\n /**\n * Adds the specified element to the collection.\n *\n * @return `true` if the element has been added, `false` if the collection does not support duplicates\n * and the element is already contained in the collection.\n
*/\n public fun add(element: E): Boolean\n\n /**\n * Removes a single instance of the specified element from this\n * collection, if it is present.\n *\n * @return `true` if the element has been successfully removed; `false` if it was not present in the collection.\n */\n public fun remove(element: E): Boolean\n\n // Bulk Modification Operations\n /**\n * Adds all of the elements of the specified collection to this collection.\n *\n * @return `true` if any of the specified elements was added to the collection, `false` if the collection was not modified.\n */\n public fun addAll(elements: Collection<E>): Boolean\n\n /**\n * Removes all of this collection's elements that are also contained in the specified collection.\n *\n * @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.\n */\n public fun removeAll(elements: Collection<E>):
Boolean\n\n /**\n * Retains only the elements in this collection that are contained in the specified collection.\n *\n * @return `true` if any element was removed from the collection, `false` if the collection was not modified.\n */\n public fun retainAll(elements: Collection<E>): Boolean\n\n /**\n * Removes all elements from this collection.\n */\n public fun clear(): Unit\n}\n\n/**\n * A generic ordered collection of elements. Methods in this interface support only read-only access to the list;\n * read/write access is supported through the [MutableList] interface.\n * @param E the type of elements contained in the list. The list is covariant on its element type.\n */\npublic interface List<out E> : Collection<E> {\n // Query Operations\n\n override val size: Int\n override fun isEmpty(): Boolean\n override fun contains(element: @UnsafeVariance E): Boolean\n override fun iterator(): Iterator<E>\n\n // Bulk Operations\n override

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 fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n\n    // Positional Access Operations\n    /**\n     * Returns the element at the specified index in the list.\n     */\n    public operator fun get(index: Int): E\n\n    // Search Operations\n    /**\n     * Returns the index of the first occurrence of the specified element in the list, or -1 if the specified\n     * element is not contained in the list.\n     */\n    public fun indexOf(element: @UnsafeVariance E): Int\n\n    /**\n     * Returns the index of the last occurrence of the specified element in the list, or -1 if the specified\n     * element is not contained in the list.\n     */\n    public fun lastIndexOf(element: @UnsafeVariance E): Int\n\n    // List Iterators\n    /**\n     * Returns a list iterator over the elements in this list (in proper sequence).\n     */\n    public fun listIterator(): ListIterator<E>\n\n    /**\n     * Returns a list iterator over the elements in this list (in proper sequence),\n     starting at the specified [index].\n     */\n    public fun listIterator(index: Int): ListIterator<E>\n\n    // View\n    /**\n     * Returns a view of the portion of this list between the specified [fromIndex] (inclusive) and [toIndex] (exclusive).\n     * The returned list is backed by this list, so non-structural changes in the returned list are reflected in this list, and vice-versa.\n     *\n     * Structural changes in the base list make the behavior of the view undefined.\n     */\n    public fun subList(fromIndex: Int, toIndex: Int): List<E>\n}\n\n/**\n * A generic ordered collection of elements that supports adding and removing elements.\n * @param E the type of elements contained in the list. The mutable list is invariant on its element type.\n */\npublic interface MutableList<E> : List<E>, MutableCollection<E> {\n    // Modification Operations\n    /**\n     * Adds the specified element to the end of this list.\n     *\n     * @return `true` because the list is always modified\n     as the result of this operation.\n     */\n    override fun add(element: E): Boolean\n\n    override fun remove(element: E): Boolean\n\n    // Bulk Modification Operations\n    /**\n     * Adds all of the elements of the specified collection to the end of this list.\n     *\n     * The elements are appended in the order they appear in the [elements] collection.\n     *\n     * @return `true` if the list was changed as the result of the operation.\n     */\n    override fun addAll(elements: Collection<E>): Boolean\n\n    /**\n     * Inserts all of the elements of the specified collection [elements] into this list at the specified [index].\n     *\n     * @return `true` if the list was changed as the result of the operation.\n     */\n    public fun addAll(index: Int, elements: Collection<E>): Boolean\n\n    override fun removeAll(elements: Collection<E>): Boolean\n    override fun retainAll(elements: Collection<E>): Boolean\n    override fun clear(): Unit\n\n    // Positional Access Operations\n    /**\n     * Replaces the element at the specified position in this list with the specified element.\n     *\n     * @return the element previously at the specified position.\n     */\n    public operator fun set(index: Int, element: E): E\n\n    /**\n     * Inserts an element into the list at the specified [index].\n     */\n    public fun add(index: Int, element: E): Unit\n\n    /**\n     * Removes an element at the specified [index] from the list.\n     *\n     * @return the element that has been removed.\n     */\n    public fun removeAt(index: Int): E\n\n    // List Iterators\n    override fun listIterator(): MutableListIterator<E>\n\n    override fun listIterator(index: Int): MutableListIterator<E>\n\n    // View\n    override fun subList(fromIndex: Int, toIndex: Int): MutableList<E>\n}\n\n/**\n * A generic unordered collection of elements that does not support duplicate elements.\n * Methods in this interface support only read-only access to the set;\n * read/write access is supported through the [MutableSet] interface.\n * @param E the type of elements contained in the set. The set is covariant on its element type.\n */\npublic interface Set<out E> : Collection<E> {\n    // Query Operations\n\n    override val size: Int\n    override fun isEmpty(): Boolean\n    override fun contains(element: @UnsafeVariance E): Boolean\n    override fun iterator(): Iterator<E>\n\n    // Bulk Operations\n    override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean\n}\n\n/**\n * A generic unordered collection of elements that does not support duplicate elements, and supports\n * adding and removing elements.\n * @param E the type of elements contained in the set. The mutable set is invariant on its element type.\n */\npublic interface MutableSet<E> : Set<E>, MutableCollection<E> {\n    // Query Operations\n    override fun iterator(): MutableIterator<E>\n\n    // Modification Operations\n\n    /**\n     * Adds the specified element to the set.\n     *\n     * @return `true` if the element has been added, `false` if the element is already contained in the set.\n     */\n    override fun add(element: E): Boolean\n\n    override fun remove(element: E): Boolean\n\n    // Bulk Modification Operations\n\n    override fun addAll(elements: Collection<E>): Boolean\n    override fun
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removeAll(elements: Collection<E>): Boolean\n   override fun retainAll(elements: Collection<E>): Boolean\n   override fun clear(): Unit\n}\n\n/**\n * A collection that holds pairs of objects (keys and values) and supports efficiently retrieving\n * the value corresponding to each key. Map keys are unique; the map holds only one value for each key.\n * Methods in this interface support only read-only access to the map; read-write access is supported through\n * the [MutableMap] interface.\n * @param K the type of map keys. The map is invariant on its key type, as it\n *   can accept key as a parameter (of [containsKey] for example) and return it
 in [keys] set.\n * @param V the type of map values. The map is covariant on its value type.\n */\npublic interface Map<K, out V> {\n   // Query Operations\n   /**\n   * Returns the number of key/value pairs in the map.\n   */\n   public val size: Int\n\n   /**\n   * Returns `true` if the map is empty (contains no elements), `false` otherwise.\n   */\n   public fun isEmpty(): Boolean\n\n   /**\n   * Returns `true` if the map contains the specified [key].\n   */\n   public fun containsKey(key: K): Boolean\n\n   /**\n   * Returns `true` if the map maps one or more keys to the specified [value].\n   */\n   public fun containsValue(value: @UnsafeVariance V): Boolean\n\n   /**\n   * Returns the value corresponding to the given [key], or `null` if such a key is not present in the map.\n   */\n   public operator fun get(key: K): V?\n\n   /**\n   * Returns the value corresponding to the given [key], or [defaultValue] if such a key is not present in the map.\n
     *\n   * @since JDK 1.8\n   */\n   @SinceKotlin(\"1.1\")\n   @PlatformDependent\n   public fun getOrDefault(key: K, defaultValue: @UnsafeVariance V): V {\n   // See default implementation in JDK sources\n   return null as V\n   }\n\n   // Views\n   /**\n   * Returns a read-only [Set] of all keys in this map.\n   */\n   public val keys: Set<K>\n\n   /**\n   * Returns a read-only [Collection] of all values in this map. Note that this collection may contain duplicate values.\n   */\n   public val values: Collection<V>\n\n   /**\n   * Returns a read-only [Set] of all key/value pairs in this map.\n   */\n   public val entries: Set<Map.Entry<K, V>>\n\n   /**\n   * Represents a key/value pair held by a [Map].\n   */\n   public interface Entry<out K, out V> {\n   /**\n   * Returns the key of this key/value pair.\n   */\n   public val key: K\n\n   /**\n   * Returns the value of this key/value pair.\n   */\n
        public val value: V\n   }\n}\n\n/**\n * A modifiable collection that holds pairs of objects (keys and values) and supports efficiently retrieving\n * the value corresponding to each key. Map keys are unique; the map holds only one value for each key.\n * @param K the type of map keys. The map is invariant on its key type.\n * @param V the type of map values. The mutable map is invariant on its value type.\n */\npublic interface MutableMap<K, V> : Map<K, V> {\n   // Modification Operations\n   /**\n   * Associates the specified [value] with the specified [key] in the map.\n   *\n   * @return the previous value associated with the key, or `null` if the key was not present in the map.\n   */\n   public fun put(key: K, value: V): V?\n\n   /**\n   * Removes the specified key and its corresponding value from this map.\n   *\n   * @return the previous value associated with the key, or `null` if the key was not present in the map.\n   */\n   public fun remove(key: K):
 V?\n\n   /**\n   * Removes the entry for the specified key only if it is mapped to the specified value.\n   *\n   * @return true if entry was removed\n   */\n   @SinceKotlin(\"1.1\")\n   @PlatformDependent\n   public fun remove(key: K, value: V): Boolean {\n   // See default implementation in JDK sources\n   return true\n   }\n\n   // Bulk Modification Operations\n   /**\n   * Updates this map with key/value pairs from the specified map [from].\n   */\n   public fun putAll(from: Map<out K, V>): Unit\n\n   /**\n   * Removes all elements from this map.\n   */\n   public fun clear(): Unit\n\n   // Views\n   /**\n   * Returns a [MutableSet] of all keys in this map.\n   */\n   override val keys: MutableSet<K>\n\n   /**\n   * Returns a [MutableCollection] of all values in this map. Note that this collection may contain duplicate values.\n   */\n   override val values: MutableCollection<V>\n\n   /**\n   * Returns a [MutableSet] of all key/value
 pairs in this map.\n   */\n   override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n\n   /**\n   * Represents a key/value pair held by a [MutableMap].\n   */\n   public interface MutableEntry<K, V> : Map.Entry<K, V> {\n   /**\n   * Changes the value associated with the key of this entry.\n   *\n   * @return the previous value corresponding to the key.\n   */\n   public fun setValue(newValue: V): V\n   }\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n//

Auto-generated file. DO NOT EDIT!\n\npackage kotlin.collections\n\n/** An iterator over a sequence of values of type `Byte`. */\npublic abstract class ByteIterator : Iterator<Byte> {\n override final fun next() = nextByte()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextByte(): Byte\n}\n\n/** An iterator over a sequence of values of type `Char`. */\npublic abstract class CharIterator : Iterator<Char> {\n override final fun next() = nextChar()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextChar(): Char\n}\n\n/** An iterator over a sequence of values of type `Short`. */\npublic abstract class ShortIterator : Iterator<Short> {\n override final fun next() = nextShort()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextShort(): Short\n}\n\n/** An iterator over a sequence of values of type `Int`. */\npublic abstract class IntIterator : Iterator<Int> {\n override final fun next() = nextInt()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextInt(): Int\n}\n\n/** An iterator over a sequence of values of type `Long`. */\npublic abstract class LongIterator : Iterator<Long> {\n override final fun next() = nextLong()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextLong(): Long\n}\n\n/** An iterator over a sequence of values of type `Float`. */\npublic abstract class FloatIterator : Iterator<Float> {\n override final fun next() = nextFloat()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextFloat(): Float\n}\n\n/** An iterator over a sequence of values of type `Double`. */\npublic abstract class DoubleIterator : Iterator<Double> {\n override final fun next() = nextDouble()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextDouble(): Double\n}\n\n/** An iterator over a sequence of values of type `Boolean`. */\npublic abstract class BooleanIterator : Iterator<Boolean> {\n override final fun next() = nextBoolean()\n\n /** Returns the next value in the sequence without boxing. */\n public abstract fun nextBoolean(): Boolean\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n/**\n * An iterator over a progression of values of type `Char`.\n * @property step the number by which the value is incremented on each step.\n */\ninternal class CharProgressionIterator(first: Char, last: Char, val step: Int) : CharIterator() {\n private val finalElement = last.toInt()\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n private var next = if (hasNext) first.toInt() else finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n override fun nextChar(): Char {\n val value = next\n if (value == finalElement) {\n if (!hasNext) throw kotlin.NoSuchElementException()\n hasNext = false\n }\n else {\n next += step\n }\n return value.toChar()\n }\n}\n\n/**\n * An iterator over a progression of values of type `Int`.\n * @property step the number by which the value is incremented on each step.\n */\ninternal class IntProgressionIterator(first: Int, last: Int, val step: Int) : IntIterator() {\n private val finalElement = last\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n private var next = if (hasNext) first else finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n override fun nextInt(): Int {\n val value = next\n if (value == finalElement) {\n if (!hasNext) throw kotlin.NoSuchElementException()\n hasNext = false\n }\n else {\n next += step\n }\n return value\n }\n}\n\n/**\n * An iterator over a progression of values of type `Long`.\n * @property step the number by which the value is incremented on each step.\n */\ninternal class LongProgressionIterator(first: Long, last: Long, val step: Long) : LongIterator() {\n private val finalElement = last\n private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n private var next = if (hasNext) first else finalElement\n\n override fun hasNext(): Boolean = hasNext\n\n override fun nextLong(): Long {\n val value = next\n if (value == finalElement) {\n if (!hasNext) throw kotlin.NoSuchElementException()\n hasNext = false\n }\n else {\n next += step\n }\n return value\n }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\nimport kotlin.internal.getProgressionLastElement\n\n/**\n * A progression of values

of type `Char`.\n */\npublic open class CharProgression\n internal constructor\n (\n start: Char,\n endInclusive: Char,\n step: Int\n) : Iterable<Char> {\n init {\n if (step == 0) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\n }\n\n /**\n * The first element in the progression.\n */\n public val first: Char = start\n\n /**\n * The last element in the progression.\n */\n public val last: Char = getProgressionLastElement(start.toInt(), endInclusive.toInt(), step).toChar()\n\n /**\n * The step of the progression.\n */\n public val step: Int = step\n\n override fun iterator(): CharIterator = CharProgressionIterator(first, last, step)\n\n /** Checks if the progression is empty. */\n public open fun isEmpty(): Boolean
= if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n other is CharProgression && (isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last && step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step)\n\n override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n companion object {\n /**\n * Creates CharProgression within the specified bounds of a closed range.\n\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n * In order to go backwards the [step] must be negative.\n *\n * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n */\n public fun fromClosedRange(rangeStart: Char, rangeEnd: Char, step:
Int): CharProgression = CharProgression(rangeStart, rangeEnd, step)\n }\n}\n\n/**\n * A progression of values of type `Int`.\n */\npublic open class IntProgression\n internal constructor\n (\n start: Int,\n endInclusive: Int,\n step: Int\n) : Iterable<Int> {\n init {\n if (step == 0) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\n }\n\n /**\n * The first element in the progression.\n */\n public val first: Int = start\n\n /**\n * The last element in the progression.\n */\n public val last: Int = getProgressionLastElement(start.toInt(), endInclusive.toInt(), step).toInt()\n\n /**\n * The step of the progression.\n */\n public val step: Int = step\n\n override fun iterator(): IntIterator = IntProgressionIterator(first,
last, step)\n\n /** Checks if the progression is empty. */\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n other is IntProgression && (isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last && step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * first + last) + step)\n\n override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n companion object {\n /**\n * Creates IntProgression within the specified bounds of a closed range.\n\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n * In order to go backwards the [step] must be negative.\n *\n * [step] must be greater than `Int.MIN_VALUE` and not equal to
zero.\n */\n public fun fromClosedRange(rangeStart: Int, rangeEnd: Int, step: Int): IntProgression = IntProgression(rangeStart, rangeEnd, step)\n }\n}\n\n/**\n * A progression of values of type `Long`.\n */\npublic open class LongProgression\n internal constructor\n (\n start: Long,\n endInclusive: Long,\n step: Long\n) : Iterable<Long> {\n init {\n if (step == 0L) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Long.MIN_VALUE to avoid overflow on negation.\")\n }\n\n /**\n * The first element in the progression.\n */\n public val first: Long = start\n\n /**\n * The last element in the progression.\n */\n public val last: Long = getProgressionLastElement(start.toLong(), endInclusive.toLong(), step).toLong()\n\n /**\n * The step of the progression.\n */\n
public val step: Long = step\n\n override fun iterator(): LongIterator = LongProgressionIterator(first, last, step)\n\n /** Checks if the progression is empty. */\n public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n override fun equals(other: Any?): Boolean =\n other is LongProgression &&

(isEmpty() && other.isEmpty() ||\n first == other.first && last == other.last && step == other.step)\n\n override fun hashCode(): Int =\n if (isEmpty()) -1 else (31 * (31 * (first xor (first ushr 32)) + (last xor (last ushr 32))) + (step xor (step ushr 32))).toInt()\n\n override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n companion object {\n /**\n * Creates LongProgression within the specified bounds of a closed range.\n\n * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with
the specified [step].\n * In order to go backwards the [step] must be negative.\n *\n * [step] must be greater than `Long.MIN_VALUE` and not equal to zero.\n */\n public fun fromClosedRange(rangeStart: Long, rangeEnd: Long, step: Long): LongProgression = LongProgression(rangeStart, rangeEnd, step)\n }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.ranges\n\n/**\n * Represents a range of values (for example, numbers or characters).\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/ranges.html) for more information.\n */\npublic interface ClosedRange<T: Comparable<T>> {\n /**\n * The minimum value in the range.\n */\n public val start: T\n\n /**\n * The maximum value in the range (inclusive).\n */\n
public val endInclusive: T\n\n /**\n * Checks whether the specified [value] belongs to the range.\n */\n public operator fun contains(value: T): Boolean = value >= start && value <= endInclusive\n\n /**\n * Checks whether the range is empty.\n */\n public fun isEmpty(): Boolean = start > endInclusive\n}\n","/*\n * Copyright 2010-2015 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in compliance with the License.\n * You may obtain a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing, software\n * distributed under the License is distributed on an \"AS IS\" BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language governing permissions and\n * limitations under the License.\n */\n\npackage kotlin\n\n/**\n * The type with
only one value: the `Unit` object. This type corresponds to the `void` type in Java.\n */\npublic object Unit {\n override fun toString() = \"kotlin.Unit\"\n}\n","/*\n * Copyright 2010-2015 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in compliance with the License.\n * You may obtain a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing, software\n * distributed under the License is distributed on an \"AS IS\" BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language governing permissions and\n * limitations under the License.\n */\n\npackage kotlin.annotation\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * Contains the list of code elements which are the possible annotation targets\n */\npublic enum class AnnotationTarget {\n
/** Class, interface or object, annotation class is also included */\n CLASS,\n /** Annotation class only */\n ANNOTATION_CLASS,\n /** Generic type parameter (unsupported yet) */\n TYPE_PARAMETER,\n /** Property */\n PROPERTY,\n /** Field, including property's backing field */\n FIELD,\n /** Local variable */\n LOCAL_VARIABLE,\n /** Value parameter of a function or a constructor */\n VALUE_PARAMETER,\n /** Constructor only (primary or secondary) */\n CONSTRUCTOR,\n /** Function (constructors are not included) */\n FUNCTION,\n /** Property getter only */\n PROPERTY_GETTER,\n /** Property setter only */\n PROPERTY_SETTER,\n /** Type usage */\n TYPE,\n /** Any expression */\n EXPRESSION,\n /** File */\n FILE,\n /** Type alias */\n @SinceKotlin(\"1.1\")\n TYPEALIAS\n}\n\n/**\n * Contains the list of possible annotation's retentions.\n *\n * Determines how an annotation is stored in binary output.\n */\npublic
enum class AnnotationRetention {\n /** Annotation isn't stored in binary output */\n SOURCE,\n /** Annotation is stored in binary output, but invisible for reflection */\n BINARY,\n /** Annotation is stored in binary output and visible for reflection (default retention) */\n RUNTIME\n}\n\n/**\n * This meta-annotation indicates the kinds of code elements which are possible targets of an annotation.\n *\n * If the target meta-annotation is not present on an annotation declaration, the annotation is applicable to the following elements:\n * [CLASS],

[PROPERTY], [FIELD], [LOCAL_VARIABLE], [VALUE_PARAMETER], [CONSTRUCTOR], [FUNCTION], [PROPERTY_GETTER], [PROPERTY_SETTER].\n *\n * @property allowedTargets list of allowed annotation targets\n */\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n@MustBeDocumented\npublic annotation class Target(vararg val allowedTargets: AnnotationTarget)\n\n/**\n * This meta-annotation determines whether an annotation is stored in binary
output and visible for reflection. By default, both are true.\n *\n * @property value necessary annotation retention (RUNTIME, BINARY or SOURCE)\n */\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class Retention(val value: AnnotationRetention = AnnotationRetention.RUNTIME)\n\n/**\n * This meta-annotation determines that an annotation is applicable twice or more on a single code element\n */\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class Repeatable\n\n/**\n * This meta-annotation determines that an annotation is a part of public API and therefore should be included in the generated\n * documentation for the element to which the annotation is applied.\n */\n@Target(AnnotationTarget.ANNOTATION_CLASS)\npublic annotation class MustBeDocumented\n","/*\n * Copyright 2010-2016 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in compliance with the License.\n * You may obtain
a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing, software\n * distributed under the License is distributed on an \"AS IS\" BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language governing permissions and\n * limitations under the License.\n */\n\npackage kotlin.internal\n\n/**\n * Specifies that the corresponding type parameter is not used for unsafe operations such as casts or 'is' checks\n * That means it's completely safe to use generic types as argument for such parameter.\n */\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class PureReifiable\n\n/**\n * Specifies that the corresponding built-in method exists depending on platform.\n * Current implementation for JVM looks whether method with same JVM descriptor exists in the module JDK.\n * For example MutableMap.remove(K,
V) available only if corresponding\n * method 'java/util/Map.remove(Ljava/lang/Object;Ljava/lang/Object;)Z' is defined in JDK (i.e. for major versions >= 8)\n */\n@Target(AnnotationTarget.FUNCTION)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class PlatformDependent\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.internal\n\n// a mod b (in arithmetical sense)\nprivate fun mod(a: Int, b: Int): Int {\n   val mod = a % b\n   return if (mod >= 0) mod else mod + b\n}\n\nprivate fun mod(a: Long, b: Long): Long {\n   val mod = a % b\n   return if (mod >= 0) mod else mod + b\n}\n\n// (a - b) mod c\nprivate fun differenceModulo(a: Int, b: Int, c: Int): Int {\n   return mod(mod(a, c) - mod(b, c), c)\n}\n\nprivate fun differenceModulo(a: Long, b: Long, c: Long): Long {\n   return
mod(mod(a, c) - mod(b, c), c)\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n */\n@PublishedApi\ninternal fun getProgressionLastElement(start: Int, end: Int, step: Int): Int = when {\n   step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n   step < 0 -> if (start <= end) end else end + differenceModulo(start, end,
-step)\n   else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n *\n * - either

`step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n */\n@PublishedApi\ninternal fun getProgressionLastElement(start: Long, end: Long, step: Long): Long = when {\n step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step)\n step < 0 -> if (start <= end) end else end + differenceModulo(start, end, -step)\n else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\n}\n\n","/*\n * Copyright 2010-2015 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in compliance with the License.\n * You may obtain a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing, software\n * distributed under the License is distributed on an \"AS IS\" BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language governing permissions and\n * limitations under the License.\n */\n\npackage kotlin.reflect\n\n/**\n * Represents a parameter passed to a function or a property getter/setter,\n * including `this` and extension receiver parameters.\n */\npublic interface KParameter : KAnnotatedElement {\n /**\n * 0-based index of this parameter in the parameter list of its containing callable.\n */\n public val index: Int\n\n /**\n * Name of this parameter as it was declared in the source code,\n * or `null` if the parameter has no name or its name is not available at runtime.\n * Examples of nameless parameters include `this` instance for member functions,\n * extension receiver for extension functions or properties, parameters of Java methods\n * compiled without the debug information, and others.\n */\n public val name: String?\n\n /**\n * Type of this parameter. For a `vararg` parameter, this is the type of the corresponding array,\n * not the individual element.\n */\n public val type: KType\n\n /**\n * Kind of this parameter.\n */\n public val kind: Kind\n\n /**\n * Kind represents a particular position of the parameter declaration in the source code,\n * such as an instance, an extension receiver parameter or a value parameter.\n */\n public enum class Kind {\n /** Instance required to make a call to the member, or an outer class instance for an inner class constructor. */\n INSTANCE,\n\n /** Extension receiver of an extension function or property. */\n EXTENSION_RECEIVER,\n\n /** Ordinary named value parameter. */\n VALUE,\n }\n\n /**\n * `true` if this parameter is optional and can be omitted when making a call via [KCallable.callBy], or `false` otherwise.\n *\n * A parameter is optional in any of the two cases:\n * 1. The default value is provided at the declaration of this parameter.\n * 2. The parameter is declared in a member function and one of the corresponding parameters in the super functions is optional.\n */\n public val isOptional: Boolean\n\n /**\n * `true` if this parameter is `vararg`.\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/functions.html#variable-number-of-arguments-varargs)\n * for more information.\n */\n @SinceKotlin(\"1.1\")\n public val isVararg: Boolean\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\n/**\n * Represents a type. Type is usually either a class with optional type arguments,\n * or a type parameter of some declaration, plus nullability.\n */\npublic interface KType : KAnnotatedElement {\n /**\n * The declaration of the classifier used in this type.\n * For example, in the type `List<String>` the classifier would be the [KClass] instance for [List].\n *\n * Returns `null` if this type is not denotable in Kotlin, for example if it is an intersection type.\n */\n @SinceKotlin(\"1.1\")\n public val classifier: KClassifier?\n\n /**\n * Type arguments passed for the parameters of the classifier in this type.\n * For example, in the type `Array<out Number>` the only type argument is `out Number`.\n *\n * In case this type is based on an inner class, the returned list contains the type arguments provided for the innermost class first,\n * then its outer class, and so on.\n * For example, in the type `Outer<A, B>.Inner<C, D>` the returned list is `[C, D, A, B]`.\n */\n @SinceKotlin(\"1.1\")\n public val arguments: List<KTypeProjection>\n\n /**\n * `true` if this type was marked nullable in the source code.\n *\n * For Kotlin types, it means that `null` value is allowed to be represented by this type.\n * In practice it

means that the type was declared with a question mark at the end.\n * For non-Kotlin types, it means the type or the symbol which was declared with this type\n * is annotated with a runtime-retained nullability annotation such as [javax.annotation.Nullable].\n *\n * Note
that even if [isMarkedNullable] is false, values of the type can still be `null`.\n * This may happen if it is a type of the type parameter with a nullable upper bound:\n *\n * ```\n * fun <T> foo(t: T) {\n * // isMarkedNullable == false for t's type, but t can be null here when T = \"Any?\"\n * }\n * ```\n */\n public val isMarkedNullable: Boolean\n}\n\n/**\n * Represents a type projection. Type projection is usually the argument to another type in a type usage.\n * For example, in the type `Array<out Number>`, `out Number` is the covariant projection of the type represented by the class `Number`.\n *\n * Type projection is either the star projection, or an entity consisting of a specific type plus optional variance.\n *\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#type-projections)\n * for more information.\n */\n@SinceKotlin(\"1.1\")\npublic data class KTypeProjection constructor(\n
/**\n * The use-site variance specified in the projection, or `null` if this is a star projection.\n */\n public val variance: KVariance?,\n /**\n * The type specified in the projection, or `null` if this is a star projection.\n */\n public val type: KType?\n) {\n public companion object {\n /**\n * Star projection, denoted by the `*` character.\n * For example, in the type `KClass<*>`, `*` is the star projection.\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#star-projections)\n * for more information.\n */\n public val STAR: KTypeProjection = KTypeProjection(null, null)\n\n /**\n * Creates an invariant projection of a given type. Invariant projection is just the type itself,\n * without any use-site variance modifiers applied to it.\n * For example, in the type `Set<String>`, `String` is an invariant
projection of the type represented by the class `String`.\n */\n public fun invariant(type: KType): KTypeProjection =\n KTypeProjection(KVariance.INVARIANT, type)\n\n /**\n * Creates a contravariant projection of a given type, denoted by the `in` modifier applied to a type.\n * For example, in the type `MutableList<in Number>`, `in Number` is a contravariant projection of the type of class `Number`.\n */\n public fun contravariant(type: KType): KTypeProjection =\n KTypeProjection(KVariance.IN, type)\n\n /**\n * Creates a covariant projection of a given type, denoted by the `out` modifier applied to a type.\n * For example, in the type `Array<out Number>`, `out Number` is a covariant projection of the type of class `Number`.\n */\n public fun covariant(type: KType): KTypeProjection =\n KTypeProjection(KVariance.OUT, type)\n }\n}\n","/*\n * Copyright
2010-2016 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in compliance with the License.\n * You may obtain a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing, software\n * distributed under the License is distributed on an \"AS IS\" BASIS,\n * WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language governing permissions and\n * limitations under the License.\n */\n\npackage kotlin.reflect\n\n/**\n * Represents variance applied to a type parameter on the declaration site (*declaration-site variance*),\n * or to a type in a projection (*use-site variance*).\n *\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/generics.html#variance)\n * for more information.\n *\n * @see [KTypeParameter.variance]\n * @see [KTypeProjection]\n
*/\n@SinceKotlin(\"1.1\")\nenum class KVariance {\n /**\n * The affected type parameter or type is *invariant*, which means it has no variance applied to it.\n */\n INVARIANT,\n\n /**\n * The affected type parameter or type is *contravariant*. Denoted by the `in` modifier in the source code.\n */\n IN,\n\n /**\n * The affected type parameter or type is *covariant*. Denoted by the `out` modifier in the source code.\n */\n OUT,\n}\n","/*\n * Copyright 2010-2016 JetBrains s.r.o.\n *\n * Licensed under the Apache License, Version 2.0 (the \"License\");\n * you may not use this file except in compliance with the License.\n * You may obtain a copy of the License at\n *\n * http://www.apache.org/licenses/LICENSE-2.0\n *\n * Unless required by applicable law or agreed to in writing, software\n * distributed under the License is distributed on an \"AS IS\" BASIS,\n *

WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.\n * See the License for the specific language governing permissions and\n * limitations under the License.\n */\n\npackage kotlin.reflect\n\n/**\n * Visibility is an aspect of a Kotlin declaration regulating where that declaration is accessible in the source code.\n * Visibility can be changed with one of the following modifiers: `public`, `protected`, `internal`, `private`.\n *\n * Note that some Java visibilities such as package-private and protected (which also gives access to items from the same package)\n * cannot be represented in Kotlin, so there's no [KVisibility] value corresponding to them.\n *\n * See the [Kotlin language documentation](https://kotlinlang.org/docs/reference/visibility-modifiers.html)\n * for more information.\n */\n@SinceKotlin(\"1.1\")\nenum class KVisibility {\n   /**\n   * Visibility of declarations marked with the `public` modifier, or with no modifier at all.\n   */\n   PUBLIC,\n\n   /**\n   * Visibility of declarations marked with the `protected` modifier.\n   */\n   PROTECTED,\n\n   /**\n   * Visibility of declarations marked with the `internal` modifier.\n   */\n   INTERNAL,\n\n   /**\n   * Visibility of declarations marked with the `private` modifier.\n   */\n   PRIVATE,\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@JsName(\"arrayIterator\")\ninternal fun arrayIterator(array: dynamic, type: String?) = when (type) {\n   null -> {\n   val arr: Array<dynamic> = array\n   object : Iterator<dynamic> {\n   var index = 0\n   override fun hasNext() = index < arr.size\n   override fun next() = if (index < arr.size) arr[index++] else throw NoSuchElementException(\"$index\")\n   }\n   }\n   \"BooleanArray\" -> booleanArrayIterator(array)\n   \"ByteArray\" -> byteArrayIterator(array)\n   \"ShortArray\" -> shortArrayIterator(array)\n   \"CharArray\" -> charArrayIterator(array)\n   \"IntArray\" -> intArrayIterator(array)\n   \"LongArray\" -> longArrayIterator(array)\n   \"FloatArray\" -> floatArrayIterator(array)\n   \"DoubleArray\" -> doubleArrayIterator(array)\n   else -> throw IllegalStateException(\"Unsupported type argument for arrayIterator: $type\")\n}\n\n@JsName(\"booleanArrayIterator\")\ninternal fun booleanArrayIterator(array: BooleanArray) = object : BooleanIterator() {\n   var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextBoolean() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"byteArrayIterator\")\ninternal fun byteArrayIterator(array: ByteArray) = object : ByteIterator() {\n   var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextByte() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"shortArrayIterator\")\ninternal fun shortArrayIterator(array: ShortArray) = object : ShortIterator() {\n   var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextShort() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"charArrayIterator\")\ninternal fun charArrayIterator(array: CharArray) = object : CharIterator() {\n   var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextChar() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"intArrayIterator\")\ninternal fun intArrayIterator(array: IntArray) = object : IntIterator() {\n   var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextInt() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"floatArrayIterator\")\ninternal fun floatArrayIterator(array: FloatArray) = object : FloatIterator() {\n   var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextFloat() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"doubleArrayIterator\")\ninternal fun doubleArrayIterator(array: DoubleArray) = object : DoubleIterator() {\n   var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextDouble() = if (index < array.size) array[index++] else throw NoSuchElementException(\"$index\")\n}\n\n@JsName(\"longArrayIterator\")\ninternal fun longArrayIterator(array: LongArray) = object : LongIterator() {\n   var index = 0\n   override fun hasNext() = index < array.size\n   override fun nextLong() = if (index < array.size) array[index++] else throw

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NoSuchElementException(\"$index\")\n}\n\n@JsName(\"PropertyMetadata\")\ninternal class PropertyMetadata(@JsName(\"callableName\") val name: String)\n\n@JsName(\"noWhenBranchMatched\")\ninternal fun noWhenBranchMatched(): Nothing = throw NoWhenBranchMatchedException()\n\n@JsName(\"subSequence\")\ninternal fun subSequence(c: CharSequence, startIndex: Int, endIndex: Int): CharSequence {\n    if (c is String) {\n        return c.substring(startIndex, endIndex)\n    } else {\n        return c.asDynamic().`subSequence_vux9f0$`(startIndex, endIndex)\n    }\n}\n\n@JsName(\"captureStack\")\ninternal fun captureStack(baseClass: JsClass<in Throwable>, instance: Throwable) {\n    if (js(\"Error\").captureStackTrace) {\n        js(\"Error\").captureStackTrace(instance, instance::class.js);\n    } else {\n        instance.asDynamic().stack = js(\"new Error()\").stack;\n    }\n}\n\n@JsName(\"newThrowable\")\ninternal fun newThrowable(message: String?, cause: Throwable?): Throwable {\n    val throwable = js(\"new Error()\")\n    throwable.message = if (jsTypeOf(message) == \"undefined\") {\n        if (cause != null) cause.toString() else null\n    } else {\n        message\n    }\n    throwable.cause = cause\n    throwable.name = \"Throwable\"\n    return throwable\n}\n\n@JsName(\"BoxedChar\")\ninternal class BoxedChar(val c: Int) : Comparable<Int> {\n    override fun equals(other: Any?): Boolean {\n        return other is BoxedChar && c == other.c\n    }\n\n    override fun hashCode(): Int {\n        return c\n    }\n\n    override fun toString(): String {\n        return js(\"this.c\").unsafeCast<Char>().toString()\n    }\n\n    override fun compareTo(other: Int): Int {\n        return js(\"this.c - other\").unsafeCast<Int>()\n    }\n\n    @JsName(\"valueOf\")\n    public fun valueOf(): Int {\n        return c\n    }\n}\n\n@kotlin.internal.InlineOnly\ninternal inline fun <T> concat(args: Array<T>): T {\n    val typed = js(\"Array\")(args.size)\n    for (i in args.indices) {\n        val arr = args[i]\n        if (arr !is Array<*>) {\n            typed[i] = js(\"[]\").slice.call(arr)\n        } else {\n            typed[i] = arr\n        }\n    }\n    return js(\"[]\").concat.apply(js(\"[]\"), typed);\n}\n\n/** Concat regular Array's and TypedArray's into an Array.\n */\n@PublishedApi\n@JsName(\"arrayConcat\")\n@Suppress(\"UNUSED_PARAMETER\")\ninternal fun <T> arrayConcat(a: T, b: T): T {\n    return concat(js(\"arguments\"))\n}\n\n/** Concat primitive arrays. Main use: prepare vararg arguments.\n *  For compatibility with 1.1.0 the arguments may be a mixture of Array's and TypedArray's.\n *\n *  If the first argument is TypedArray (Byte-, Short-, Char-, Int-, Float-, and DoubleArray) returns a TypedArray, otherwise an Array.\n *  If the first argument has the $type$ property (Boolean-, Char-, and LongArray) copy its value to result.$type$.\n *  If the first argument is a regular Array without the $type$ property default to arrayConcat.\n */\n@PublishedApi\n@JsName(\"primitiveArrayConcat\")\n@Suppress(\"UNUSED_PARAMETER\")\ninternal fun <T> primitiveArrayConcat(a: T, b: T): T {\n    val args: Array<T> = js(\"arguments\")\n    if (a is Array<*> && a.asDynamic().`$type$` === undefined) {\n        return concat(args)\n    } else {\n        var size = 0\n        for (i in args.indices) {\n            size += args[i].asDynamic().length as Int\n        }\n        val result = js(\"new a.constructor(size)\")\n        kotlin.copyArrayType(a, result)\n        size = 0\n        for (i in args.indices) {\n            val arr = args[i].asDynamic()\n            for (j in 0 until arr.length) {\n                result[size++] = arr[j]\n            }\n        }\n        return result\n    }\n}\n\n@JsName(\"booleanArrayOf\")\ninternal fun booleanArrayOf() = withType(\"BooleanArray\", js(\"[].slice.call(arguments)\"))\n\n@JsName(\"charArrayOf\")\n// The arguments have to be slice'd here because of Rhino (see KT-16974)\ninternal fun charArrayOf() = withType(\"CharArray\", js(\"new Uint16Array([].slice.call(arguments))\"))\n\n@JsName(\"longArrayOf\")\ninternal fun longArrayOf() = withType(\"LongArray\", js(\"[].slice.call(arguments)\"))\n\n@JsName(\"withType\")\n@kotlin.internal.InlineOnly\ninternal inline fun withType(type: String, array: dynamic): dynamic {\n    array.`$type$` = type\n    return array\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Function corresponding to JavaScript's `typeof` operator\n */\n@kotlin.internal.InlineOnly\n@Suppress(\"UNUSED_PARAMETER\")\npublic inline fun jsTypeOf(a: Any?):
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String = js(\"typeof a\")\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:Suppress(\"UNUSED_PARAMETER\", \"NOTHING_TO_INLINE\")\n\npackage kotlin\n\n/**\n * Returns an empty array of the specified type [T].\n */\npublic inline fun <T> emptyArray(): Array<T> = js(\"[]\")\n\n@library\npublic fun <T> arrayOf(vararg elements: T): Array<T> = definedExternally\n\n@library\npublic fun doubleArrayOf(vararg elements: Double): DoubleArray = definedExternally\n\n@library\npublic fun floatArrayOf(vararg elements: Float): FloatArray = definedExternally\n\n@library\npublic fun longArrayOf(vararg elements: Long): LongArray = definedExternally\n\n@library\npublic fun intArrayOf(vararg elements: Int): IntArray = definedExternally\n\n@library\npublic fun charArrayOf(vararg elements: Char): CharArray = definedExternally\n\n@library\npublic fun shortArrayOf(vararg elements: Short): ShortArray = definedExternally\n\n@library\npublic fun byteArrayOf(vararg elements: Byte): ByteArray = definedExternally\n\n@library\npublic fun booleanArrayOf(vararg elements: Boolean): BooleanArray = definedExternally\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n */\npublic actual fun <T> lazy(initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n *\n * The [mode] parameter is ignored. */\npublic actual fun <T> lazy(mode: LazyThreadSafetyMode, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n/**\n * Creates a new instance of the [Lazy] that uses the specified initialization function [initializer].\n *\n * The [lock] parameter is ignored.\n */\npublic actual fun <T> lazy(lock: Any?, initializer: () -> T): Lazy<T> = UnsafeLazyImpl(initializer)\n\n\ninternal fun fillFrom(src: dynamic, dst: dynamic): dynamic {\n   val srcLen: Int = src.length\n   val dstLen: Int = dst.length\n   var index: Int = 0\n   while (index < srcLen && index < dstLen) dst[index] = src[index++]\n   return dst\n}\n\n\ninternal fun arrayCopyResize(source: dynamic, newSize: Int, defaultValue: Any?): dynamic {\n   val result = source.slice(0, newSize)\n   copyArrayType(source, result)\n   var index: Int = source.length\n   if (newSize > index) {\n   result.length = newSize\n   while (index < newSize) result[index++] = defaultValue\n   }\n   return result\n}\n\ninternal fun <T> arrayPlusCollection(array: dynamic, collection: Collection<T>): dynamic {\n   val result = array.slice()\n   result.length += collection.size\n   copyArrayType(array, result)\n   var index: Int = array.length\n   for (element in collection) result[index++] = element\n   return result\n}\n\ninternal fun <T> fillFromCollection(dst: dynamic, startIndex: Int, collection: Collection<T>): dynamic {\n   var index = startIndex\n   for (element in collection) dst[index++] = element\n   return dst\n}\n\ninternal inline fun copyArrayType(from: dynamic, to: dynamic) {\n   if (from.`$type$` !== undefined) {\n   to.`$type$` = from.`$type$`\n   }\n}\n\ninternal inline fun jsIsType(obj: dynamic, jsClass: dynamic) = js(\"Kotlin\").isType(obj, jsClass)","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@SinceKotlin(\"1.3\")\n@JsName(\"CoroutineImpl\")\ninternal abstract class CoroutineImpl(private val resultContinuation: Continuation<Any?>) : Continuation<Any?> {\n   protected var state = 0\n   protected var exceptionState = 0\n   protected var result: Any? = null\n   protected var exception: Throwable? = null\n   protected var finallyPath: Array<Int>? = null\n\n   public override val context: CoroutineContext = resultContinuation.context\n\n   private var intercepted_: Continuation<Any?>? = null\n\n   public fun intercepted(): Continuation<Any?> =\n   intercepted_\n   ?: (context[ContinuationInterceptor]?.interceptContinuation(this) ?: this)\n   .also { intercepted_ = it }\n\n   override fun resumeWith(result: Result<Any?>) {\n   var current = this\n   var currentResult: Any? = result.getOrNull()\n   var currentException: Throwable? = result.exceptionOrNull()\n\n   // This loop unrolls recursion in current.resumeWith(param) to make saner and shorter stack traces on resume\n   while (true) {\n   with(current) {\n   val completion = resultContinuation\n\n   // Set result and exception fields in the current continuation\n   if

(currentException == null) {\n this.result = currentResult\n } else {\n state = exceptionState\n exception = currentException\n }\n\n try {\n val outcome = doResume()\n if (outcome === COROUTINE_SUSPENDED) return\n currentResult = outcome\n currentException = null\n } catch (exception: dynamic) { // Catch all exceptions\n currentResult = null\n currentException = exception.unsafeCast<Throwable>()\n }\n\n releaseIntercepted() // this state machine instance is terminating\n\n if (completion is CoroutineImpl) {\n // unrolling recursion via loop\n current = completion\n } else {\n // top-level completion reached -- invoke and return\n currentException?.let {\n completion.resumeWithException(it)\n } ?: completion.resume(currentResult)\n return\n }\n }\n }\n }\n\n private fun releaseIntercepted() {\n val intercepted = intercepted_\n if (intercepted != null && intercepted !== this) {\n context[ContinuationInterceptor]!!.releaseInterceptedContinuation(intercepted)\n }\n this.intercepted_ = CompletedContinuation // just in case\n }\n\n protected abstract fun doResume(): Any?\n}\n\ninternal object CompletedContinuation : Continuation<Any?> {\n override val context: CoroutineContext\n get() = error(\"This continuation is already complete\")\n\n override fun resumeWith(result: Result<Any?>) {\n error(\"This continuation is already complete\")\n }\n\n override fun toString(): String = \"This continuation is already complete\"\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:Suppress(\"UNCHECKED_CAST\", \"RedundantVisibilityModifier\")\n\npackage kotlin\n\nimport kotlin.contracts.*\nimport kotlin.internal.InlineOnly\nimport kotlin.jvm.JvmField\n\n/**\n * A discriminated union that encapsulates successful outcome with a value of type [T]\n * or a failure with an arbitrary [Throwable] exception.\n */\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\n@SinceKotlin(\"1.3\")\npublic inline class Result<out T> @PublishedApi internal constructor(\n @PublishedApi\n internal val value: Any?\n) : Serializable {\n // discovery\n\n /**\n * Returns `true` if this instance represents successful outcome.\n * In this case [isFailure] returns `false`.\n */\n public val isSuccess: Boolean get() = value !is Failure\n\n /**\n * Returns `true` if this instance represents failed outcome.\n * In this case [isSuccess] returns `false`.\n */\n public val isFailure: Boolean get() = value is Failure\n\n // value & exception retrieval\n\n /**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or `null`\n * if it is [failure][Result.isFailure].\n *\n * This function is shorthand for `getOrElse { null }` (see [getOrElse]) or\n * `fold(onSuccess = { it }, onFailure = { null })` (see [fold]).\n */\n @InlineOnly\n public inline fun getOrNull(): T? =\n when {\n isFailure -> null\n else -> value as T\n }\n\n /**\n * Returns the encapsulated exception if this instance represents [failure][isFailure] or `null`\n * if it is [success][isSuccess].\n *\n * This function is shorthand for `fold(onSuccess = { null }, onFailure = { it })` (see [fold]).\n */\n public fun exceptionOrNull(): Throwable? =\n when (value) {\n is Failure -> value.exception\n else -> null\n }\n\n /**\n * Returns a string `Success(v)` if this instance represents [success][Result.isSuccess]\n * where `v` is a string representation of the value or a string `Failure(x)` if\n * it is [failure][isFailure] where `x` is a string representation of the exception.\n */\n public override fun toString(): String =\n when (value) {\n is Failure -> value.toString() // \"Failure($exception)\"\n else -> \"Success($value)\"\n }\n\n // companion with constructors\n\n /**\n * Companion object for [Result] class that contains its constructor functions\n * [success] and [failure].\n */\n public companion object {\n /**\n * Returns an instance that encapsulates the given [value] as successful value.\n */\n @InlineOnly\n public inline fun <T> success(value: T): Result<T> =\n Result(value)\n\n /**\n * Returns an instance that encapsulates the given [exception] as failure.\n */\n @InlineOnly\n public inline fun <T> failure(exception: Throwable): Result<T> =\n Result(createFailure(exception))\n }\n\n

internal class Failure(\n @JvmField\n val exception: Throwable\n) : Serializable {\n override fun equals(other: Any?): Boolean = other is Failure && exception == other.exception\n override fun hashCode(): Int = exception.hashCode()\n override fun toString(): String = \"Failure($exception)\"\n }\n}\n\n/**\n * Creates an instance of internal marker [Result.Failure] class to\n * make sure that this class is not exposed in ABI.\n */\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun createFailure(exception: Throwable): Any =\n Result.Failure(exception)\n\n/**\n * Throws exception if the result is failure. This internal function minimizes\n * inlined bytecode for [getOrThrow] and makes sure that in the future we can\n * add some exception-augmenting logic here (if needed).\n */\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun Result<*>.throwOnFailure() {\n if (value is Result.Failure) throw value.exception\n}\n\n/**\n * Calls the specified function [block] and returns its encapsulated result if invocation was successful,\n * catching and encapsulating any thrown exception as a failure.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R> runCatching(block: () -> R): Result<R> {\n return try {\n Result.success(block())\n } catch (e: Throwable) {\n Result.failure(e)\n }\n}\n\n/**\n * Calls the specified function [block] with `this` value as its receiver and returns its encapsulated result\n * if invocation was successful, catching and encapsulating any thrown exception as a failure.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <T, R> T.runCatching(block: T.() -> R): Result<R> {\n return try {\n Result.success(block())\n } catch (e: Throwable) {\n Result.failure(e)\n }\n}\n\n// -- extensions ---\n\n/**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or throws the encapsulated exception\n * if it is [failure][Result.isFailure].\n *\n * This function is shorthand for `getOrElse { throw it }` (see [getOrElse]).\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <T> Result<T>.getOrThrow(): T {\n throwOnFailure()\n return value as T\n}\n\n/**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the\n * result of [onFailure] function for encapsulated exception if it is [failure][Result.isFailure].\n *\n * Note, that an exception thrown by [onFailure] function is rethrown by this function.\n *\n * This function is shorthand for `fold(onSuccess = { it }, onFailure = onFailure)` (see [fold]).\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T : R> Result<T>.getOrElse(onFailure: (exception: Throwable) -> R): R {\n contract {\n callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\n }\n return when (val exception = exceptionOrNull()) {\n null -> value as T\n else -> onFailure(exception)\n }\n}\n\n/**\n * Returns the encapsulated value if this instance represents [success][Result.isSuccess] or the\n * [defaultValue] if it is [failure][Result.isFailure].\n *\n * This function is shorthand for `getOrElse { defaultValue }` (see [getOrElse]).\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T : R> Result<T>.getOrDefault(defaultValue: R): R {\n if (isFailure) return defaultValue\n return value as T\n}\n\n/**\n * Returns the the result of [onSuccess] for encapsulated value if this instance represents [success][Result.isSuccess]\n * or the result of [onFailure] function for encapsulated exception if it is [failure][Result.isFailure].\n *\n * Note, that an exception thrown by [onSuccess] or by [onFailure] function is rethrown by this function.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T> Result<T>.fold(\n onSuccess: (value: T) -> R,\n onFailure: (exception: Throwable) -> R\n): R {\n contract {\n callsInPlace(onSuccess, InvocationKind.AT_MOST_ONCE)\n callsInPlace(onFailure, InvocationKind.AT_MOST_ONCE)\n }\n return when (val exception = exceptionOrNull()) {\n null -> onSuccess(value as T)\n else -> onFailure(exception)\n }\n}\n\n// transformation\n\n/**\n * Returns the encapsulated result of the given [transform] function applied to encapsulated value\n * if this instance represents [success][Result.isSuccess] or the\n * original encapsulated exception if it is [failure][Result.isFailure].\n *\n * Note, that an exception thrown by [transform] function is rethrown by this function.\n * See [mapCatching] for an alternative that encapsulates exceptions.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T> Result<T>.map(transform: (value: T) -> R): Result<R> {\n contract {\n callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n }\n return when {\n isSuccess -> Result.success(transform(value as T))\n else -> Result(value)\n }\n}\n\n/**\n * Returns the encapsulated result of the given [transform] function applied to encapsulated value\n * if this instance represents [success][Result.isSuccess] or the\n * original encapsulated exception if it is [failure][Result.isFailure].\n

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 *\n * Any exception thrown by [transform] function is caught, encapsulated as a failure and returned by this function.\n * See [map] for an alternative that rethrows exceptions.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T> Result<T>.mapCatching(transform: (value: T) -> R): Result<R> {\n    return when {\n        isSuccess -> runCatching { transform(value as T) }\n        else -> Result(value)\n    }\n}\n\n/**\n * Returns the encapsulated result of the given [transform] function applied to encapsulated exception\n * if this instance represents [failure][Result.isFailure] or the\n * original encapsulated value if it is [success][Result.isSuccess].\n *\n * Note, that an exception thrown by [transform] function is rethrown by this function.\n * See [recoverCatching] for an alternative that encapsulates exceptions.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T : R> Result<T>.recover(transform: (exception: Throwable) -> R): Result<R> {\n    contract {\n        callsInPlace(transform, InvocationKind.AT_MOST_ONCE)\n    }\n    return when (val exception = exceptionOrNull()) {\n        null -> this\n        else -> Result.success(transform(exception))\n    }\n}\n\n/**\n * Returns the encapsulated result of the given [transform] function applied to encapsulated exception\n * if this instance represents [failure][Result.isFailure] or the\n * original encapsulated value if it is [success][Result.isSuccess].\n *\n * Any exception thrown by [transform] function is caught, encapsulated as a failure and returned by this function.\n * See [recover] for an alternative that rethrows exceptions.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <R, T : R> Result<T>.recoverCatching(transform: (exception: Throwable) -> R): Result<R> {\n    val value = value // workaround for inline classes BE bug\n    return when (val exception = exceptionOrNull()) {\n        null -> this\n        else -> runCatching { transform(exception) }\n    }\n}\n\n//
 \"peek\" onto value/exception and pipe\n\n/**\n * Performs the given [action] on encapsulated exception if this instance represents [failure][Result.isFailure].\n * Returns the original `Result` unchanged.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <T> Result<T>.onFailure(action: (exception: Throwable) -> Unit): Result<T> {\n    contract {\n        callsInPlace(action, InvocationKind.AT_MOST_ONCE)\n    }\n    exceptionOrNull()?.let { action(it) }\n    return this\n}\n\n/**\n * Performs the given [action] on encapsulated value if this instance represents [success][Result.isSuccess].\n * Returns the original `Result` unchanged.\n */\n@InlineOnly\n@SinceKotlin(\"1.3\")\npublic inline fun <T> Result<T>.onSuccess(action: (value: T) -> Unit): Result<T> {\n    contract {\n        callsInPlace(action, InvocationKind.AT_MOST_ONCE)\n    }\n    if (isSuccess) action(value as T)\n    return this\n}\n\n// ----------\n","/*\n * Copyright 2010-2018 JetBrains s.r.o.
 and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.intrinsics.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Interface representing a continuation after a suspension point that returns a value of type `T`.\n */\n@SinceKotlin(\"1.3\")\npublic interface Continuation<in T> {\n    /**\n     * The context of the coroutine that corresponds to this continuation.\n     */\n    public val context: CoroutineContext\n\n    /**\n     * Resumes the execution of the corresponding coroutine passing a successful or failed [result] as the\n     * return value of the last suspension point.\n     */\n    public fun resumeWith(result: Result<T>)\n}\n\n/**\n * Classes and interfaces marked with this annotation are restricted when used as receivers for extension\n * `suspend` functions. These `suspend` extensions can only invoke other
 member or extension `suspend` functions on this particular\n * receiver and are restricted from calling arbitrary suspension functions.\n */\n@SinceKotlin(\"1.3\")\n@Target(AnnotationTarget.CLASS)\n@Retention(AnnotationRetention.BINARY)\npublic annotation class RestrictsSuspension\n\n/**\n * Resumes the execution of the corresponding coroutine passing [value] as the return value of the last suspension point.\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic inline fun <T> Continuation<T>.resume(value: T): Unit =\n    resumeWith(Result.success(value))\n\n/**\n * Resumes the execution of the corresponding coroutine so that the [exception] is re-thrown right after the\n * last suspension point.\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic inline fun <T> Continuation<T>.resumeWithException(exception: Throwable): Unit =\n    resumeWith(Result.failure(exception))\n\n/**\n * Creates a [Continuation] instance with the given [context] and
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implementation of [resumeWith] method.\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic
inline fun <T> Continuation(\n context: CoroutineContext,\n crossinline resumeWith: (Result<T>) -> Unit\n):
Continuation<T> =\n object : Continuation<T> {\n override val context: CoroutineContext\n get() =
context\n\n override fun resumeWith(result: Result<T>) =\n resumeWith(result)\n }\n\n/**\n * Creates
a coroutine without a receiver and with result type [T].\n * This function creates a new, fresh instance of
suspendable computation every time it is invoked.\n *\n * To start executing the created coroutine, invoke
`resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is invoked when the
coroutine completes with a result or an exception.\n * Subsequent invocation of any resume function on the resulting
continuation will produce an [IllegalStateException].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"UNCHECKED_CAST\")\npublic fun <T> (suspend () ->
T).createCoroutine(\n
completion: Continuation<T>\n): Continuation<Unit> =\n
SafeContinuation(createCoroutineUnintercepted(completion).intercepted(), COROUTINE_SUSPENDED)\n\n/**\n
* Creates a coroutine with receiver type [R] and result type [T].\n * This function creates a new, fresh instance of
suspendable computation every time it is invoked.\n *\n * To start executing the created coroutine, invoke
`resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is invoked when the
coroutine completes with a result or an exception.\n * Subsequent invocation of any resume function on the resulting
continuation will produce an [IllegalStateException].\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"UNCHECKED_CAST\")\npublic fun <R, T> (suspend R.() ->
T).createCoroutine(\n receiver: R,\n completion: Continuation<T>\n): Continuation<Unit> =\n
SafeContinuation(createCoroutineUnintercepted(receiver, completion).intercepted(),
COROUTINE_SUSPENDED)\n\n/**\n * Starts a coroutine without
a receiver and with result type [T].\n * This function creates and starts a new, fresh instance of suspendable
computation every time it is invoked.\n * The [completion] continuation is invoked when the coroutine completes
with a result or an exception.\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"UNCHECKED_CAST\")\npublic fun <T>
(suspend () -> T).startCoroutine(\n completion: Continuation<T>\n) {\n
createCoroutineUnintercepted(completion).intercepted().resume(Unit)\n}\n\n/**\n * Starts a coroutine with receiver
type [R] and result type [T].\n * This function creates and starts a new, fresh instance of suspendable computation
every time it is invoked.\n * The [completion] continuation is invoked when the coroutine completes with a result or
an exception.\n */\n@SinceKotlin(\"1.3\")\n@Suppress(\"UNCHECKED_CAST\")\npublic fun <R, T> (suspend
R.() -> T).startCoroutine(\n receiver: R,\n completion: Continuation<T>\n) {\n
createCoroutineUnintercepted(receiver, completion).intercepted().resume(Unit)\n}\n\n/**\n
* Obtains the current continuation instance inside suspend functions and suspends\n * the currently running
coroutine.\n *\n * In this function both [Continuation.resume] and [Continuation.resumeWithException] can be used
either synchronously in\n * the same stack-frame where the suspension function is run or asynchronously later in the
same thread or\n * from a different thread of execution. Subsequent invocation of any resume function will produce
an [IllegalStateException].\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic suspend inline fun <T>
suspendCoroutine(crossinline block: (Continuation<T>) -> Unit): T =\n suspendCoroutineUninterceptedOrReturn
{ c: Continuation<T> ->\n val safe = SafeContinuation(c.intercepted())\n block(safe)\n
safe.getOrThrow()\n }\n\n/**\n * Returns the context of the current coroutine.\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"WRONG_MODIFIER_TARGET\")\n@InlineOnly\npublic suspend inline
val
coroutineContext: CoroutineContext\n get() {\n throw NotImplementedError(\"Implemented as intrinsic\")\n
}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this
source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
/\n\npackage kotlin.coroutines.intrinsics\n\nimport kotlin.coroutines.\nimport kotlin.internal.InlineOnly\n\n/**\n *
Starts an unintercepted coroutine without a receiver and with result type [T] and executes it until its first
suspension.\n * Returns the result of the coroutine or throws its exception if it does not suspend or

[COROUTINE_SUSPENDED] if it suspends.\n * In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.\n *\n * The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor] that might\n * be present in the completion's [CoroutineContext].
It is the invoker's responsibility to ensure that a proper invocation\n * context is established.\n *\n * This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\n * coroutine using a reference to the suspending function.\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic actual inline fun <T> (suspend () -> T).startCoroutineUninterceptedOrReturn(\n completion: Continuation<T>\n): Any? = this.asDynamic()(completion, false)\n\n/**\n * Starts an unintercepted coroutine with receiver type [R] and result type [T] and executes it until its first suspension.\n * Returns the result of the coroutine or throws its exception if it does not suspend or [COROUTINE_SUSPENDED] if it suspends.\n * In the latter case, the [completion] continuation is invoked when the coroutine completes with a result or an exception.\n *\n * The coroutine is started directly in the invoker's thread without going through the [ContinuationInterceptor]
that might\n * be present in the completion's [CoroutineContext]. It is the invoker's responsibility to ensure that a proper invocation\n * context is established.\n *\n * This function is designed to be used from inside of [suspendCoroutineUninterceptedOrReturn] to resume the execution of the suspended\n * coroutine using a reference to the suspending function.\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic actual inline fun <R, T> (suspend R.() -> T).startCoroutineUninterceptedOrReturn(\n receiver: R,\n completion: Continuation<T>\n): Any? = this.asDynamic()(receiver, completion, false)\n\n\n/**\n * Creates unintercepted coroutine without receiver and with result type [T].\n * This function creates a new, fresh instance of suspendable computation every time it is invoked.\n *\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is invoked when coroutine completes with
result or exception.\n *\n * This function returns unintercepted continuation.\n * Invocation of `resume(Unit)` starts coroutine immediately in the invoker's call stack without going through the\n * [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\n * Note that [completion] of this function may get invoked in an arbitrary context.\n *\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\n * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of\n * both the coroutine and [completion] happens in the invocation context established by\n * [ContinuationInterceptor].\n *\n * Repeated invocation of any resume function on the resulting continuation corrupts the\n * state machine of the coroutine and may result in arbitrary behaviour or exception.\n */\n@SinceKotlin(\"1.3\")\npublic actual fun <T>
(suspend () -> T).createCoroutineUnintercepted(\n completion: Continuation<T>\n): Continuation<Unit> =\n // Kotlin/JS suspend lambdas have an extra parameter `suspended`\n if (this.asDynamic().length == 2) {\n // When `suspended` is true the continuation is created, but not executed\n this.asDynamic()(completion, true)\n } else {\n createCoroutineFromSuspendFunction(completion) {\n this.asDynamic()(completion)\n }\n }\n\n/**\n * Creates unintercepted coroutine with receiver type [R] and result type [T].\n * This function creates a new, fresh instance of suspendable computation every time it is invoked.\n *\n * To start executing the created coroutine, invoke `resume(Unit)` on the returned [Continuation] instance.\n * The [completion] continuation is invoked when coroutine completes with result or exception.\n *\n * This function returns unintercepted continuation.\n * Invocation of `resume(Unit)` starts coroutine immediately in the
invoker's call stack without going through the\n * [ContinuationInterceptor] that might be present in the completion's [CoroutineContext].\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\n * Note that [completion] of this function may get invoked in an arbitrary context.\n *\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\n * Invocation of `resume(Unit)` on intercepted continuation guarantees that execution of\n * both the coroutine and [completion] happens in the invocation context established by\n * [ContinuationInterceptor].\n *\n * Repeated invocation of any resume function on the resulting continuation corrupts the\n * state machine of the coroutine and may result in arbitrary behaviour or

exception.\n */\n@SinceKotlin(\"1.3\")\npublic actual fun <R, T> (suspend R.() -> T).createCoroutineUnintercepted(\n receiver: R,\n completion: Continuation<T>\n): Continuation<Unit> =\n // Kotlin/JS
suspend lambdas have an extra parameter `suspended`\n if (this.asDynamic().length == 3) {\n // When `suspended` is true the continuation is created, but not executed\n this.asDynamic()(receiver, completion, true)\n } else {\n createCoroutineFromSuspendFunction(completion) {\n this.asDynamic()(receiver, completion)\n }\n }\n\n/**\n * Intercepts this continuation with [ContinuationInterceptor].\n *\n * This function shall be used on the immediate result of [createCoroutineUnintercepted] or [suspendCoroutineUninterceptedOrReturn],\n * in which case it checks for [ContinuationInterceptor] in the continuation's [context][Continuation.context],\n * invokes [ContinuationInterceptor.interceptContinuation], caches and returns the result.\n *\n * If this function is invoked on other [Continuation] instances it returns `this` continuation unchanged.\n */\n@SinceKotlin(\"1.3\")\npublic actual fun <T> Continuation<T>.intercepted(): Continuation<T> =\n (this as? CoroutineImpl)?.intercepted() ?: this\n\n\nprivate inline fun <T> createCoroutineFromSuspendFunction(\n completion: Continuation<T>,\n crossinline block: () -> Any?\n): Continuation<Unit> {\n @Suppress(\"UNCHECKED_CAST\")\n return object : CoroutineImpl(completion as Continuation<Any?>) {\n override fun doResume(): Any? {\n exception?.let { throw it }\n return block()\n }\n }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n// Mirrors signature from JS IR BE\n// Used for js.translator/testData/box/number/mulInt32.kt\n@library\n@JsName(\"imulEmulated\")\ninternal fun imul(x: Int, y: Int): Int = definedExternally\n\ninternal inline fun isArrayish(o: dynamic) = js(\"Kotlin\").isArrayish(o)","/*\n * Copyright 2010-2019 JetBrains s.r.o.
Use of this source code is governed by the Apache 2.0 license\n * that can be found in the license/LICENSE.txt file.\n */\n\n\n@file:Suppress(\"UNUSED_PARAMETER\")\n\npackage kotlin.js\n\n@kotlin.internal.InlineOnly\ninternal inline fun jsDeleteProperty(obj: Any, property: Any) {\n js(\"delete obj[property]\")\n}\n\n@kotlin.internal.InlineOnly\ninternal inline fun jsBitwiseOr(lhs: Any?, rhs: Any?): Int =\n js(\"lhs | rhs\").unsafeCast<Int>()","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.math\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *\n * If [sign] is `NaN` the sign of the result is undefined.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.withSign(sign: Double): Double {\n val thisSignBit = js(\"Kotlin\").doubleSignBit(this).unsafeCast<Int>()\n val newSignBit = js(\"Kotlin\").doubleSignBit(sign).unsafeCast<Int>()\n return if (thisSignBit == newSignBit) this else -this\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n * according to the IEEE 754 floating-point \"double format\" bit layout.\n */\n@SinceKotlin(\"1.2\")\n@library(\"doubleToBits\")\npublic actual fun Double.toBits(): Long = definedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Long]\n * according to the IEEE 754 floating-point \"double format\" bit layout,\n * preserving `NaN` values exact layout.\n */\n@SinceKotlin(\"1.2\")\n@library(\"doubleToRawBits\")\npublic actual fun Double.toRawBits(): Long = definedExternally\n\n/**\n * Returns the [Double]
value corresponding to a given bit representation.\n */\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Double.Companion.fromBits(bits: Long): Double = js(\"Kotlin\").doubleFromBits(bits).unsafeCast<Double>()\n\n/**\n * Returns a bit representation of the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point \"single format\" bit layout.\n *\n * Note that in Kotlin/JS [Float] range is wider than \"single format\" bit layout can represent,\n * so

some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n */\n@SinceKotlin(\"1.2\")\n@library(\"floatToBits\")\npublic actual fun Float.toBits(): Int = definedExternally\n\n/**\n * Returns a bit representation of the specified floating-point value as [Int]\n * according to the IEEE 754 floating-point \"single format\" bit layout,\n * preserving `NaN` values exact layout.\n *\n * Note that in Kotlin/JS [Float] range is wider than \"single format\" bit layout can represent,\n * so some [Float] values may overflow, underflow or loose their accuracy after conversion to bits and back.\n */\n@SinceKotlin(\"1.2\")\n@library(\"floatToRawBits\")\npublic actual fun Float.toRawBits(): Int = definedExternally\n\n/**\n * Returns the [Float] value corresponding to a given bit representation.\n */\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Float.Companion.fromBits(bits: Int): Float = js(\"Kotlin\").floatFromBits(bits).unsafeCast<Float>()\n\n\ninternal inline fun Long(low: Int, high: Int) = js(\"Kotlin\").Long.fromBits(low, high).unsafeCast<Long>()\ninternal inline val Long.low: Int get() = this.asDynamic().getLowBits().unsafeCast<Int>()\ninternal inline val Long.high: Int get() = this.asDynamic().getHighBits().unsafeCast<Int>()","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Returns a string representation of this [Long] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Long.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Reverses elements in the list in-place.\n */\npublic actual fun <T> MutableList<T>.reverse(): Unit {\n   val midPoint = (size / 2) - 1\n   if (midPoint < 0) return\n   var reverseIndex = lastIndex\n   for (index in 0..midPoint) {\n   val tmp = this[index]\n   this[index] = this[reverseIndex]\n   this[reverseIndex] = tmp\n   reverseIndex--\n   }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\n\n/**\n * Returns a character at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this char sequence.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\npublic actual fun CharSequence.elementAt(index: Int): Char {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, length: $length}\") }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n//\n// NOTE: THIS FILE IS AUTO-GENERATED by the GenerateStandardLib.kt\n// See: https://github.com/JetBrains/kotlin/tree/master/libraries/stdlib\n//\n\nimport kotlin.js.*\nimport kotlin.ranges.contains\nimport kotlin.ranges.reversed\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.elementAt(index: Int): UInt {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n *\n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.elementAt(index: Int): ULong {\n   return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\")

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}\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.elementAt(index: Int): UByte {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns an element at the given [index] or throws an [IndexOutOfBoundsException] if the [index] is out of bounds of this array.\n * \n * @sample samples.collections.Collections.Elements.elementAt\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.elementAt(index: Int): UShort {\n    return elementAtOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, size: $size}\") }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UIntArray.asList(): List<UInt> {\n return object : AbstractList<UInt>(), RandomAccess {\n        override val size: Int get() = this@asList.size\n override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override fun contains(element: UInt): Boolean = this@asList.contains(element)\n        override fun get(index: Int): UInt {\n AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n        override fun indexOf(element: UInt): Int {\n            if ((element as Any?) !is UInt) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element: UInt): Int {\n            if ((element as Any?) !is UInt) return -1\n return this@asList.lastIndexOf(element)\n        }\n    }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun ULongArray.asList(): List<ULong> {\n    return object : AbstractList<ULong>(), RandomAccess {\n        override val size: Int get() = this@asList.size\n      override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override fun contains(element: ULong): Boolean = this@asList.contains(element)\n        override fun get(index: Int): ULong {\n AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n        override fun indexOf(element: ULong): Int {\n            if ((element as Any?) !is ULong) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element: ULong): Int {\n            if ((element as Any?) !is ULong) return -1\n            return this@asList.lastIndexOf(element)\n        }\n    }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UByteArray.asList(): List<UByte> {\n    return object : AbstractList<UByte>(), RandomAccess {\n        override val size: Int get() = this@asList.size\n     override fun isEmpty(): Boolean = this@asList.isEmpty()\n        override fun contains(element: UByte): Boolean = this@asList.contains(element)\n        override fun get(index: Int): UByte {\n AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n        override fun indexOf(element: UByte): Int {\n            if ((element as Any?) !is UByte) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element: UByte): Int {\n            if ((element as Any?) !is UByte) return -1\n            return this@asList.lastIndexOf(element)\n        }\n    }\n}\n\n/**\n * Returns a [List] that wraps the original array.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic actual fun UShortArray.asList(): List<UShort> {\n    return object : AbstractList<UShort>(), RandomAccess {\n override val size: Int get() = this@asList.size\n        override fun isEmpty(): Boolean = this@asList.isEmpty()\n override fun contains(element: UShort): Boolean = this@asList.contains(element)\n        override fun get(index: Int): UShort {\n            AbstractList.checkElementIndex(index, size)\n            return this@asList[index]\n        }\n override fun indexOf(element: UShort): Int {\n            if ((element as Any?) !is UShort) return -1\n            return this@asList.indexOf(element)\n        }\n        override fun lastIndexOf(element: UShort): Int {\n            if ((element as Any?) !is UShort) return -1\n  return this@asList.lastIndexOf(element)\n        }\n    }\n}\n\n","@file: Suppress(\"DEPRECATION\")\npackage jquery.ui\n\n\n//jquery UI\nimport jquery.JQuery\nimport kotlin.js.Json\n\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\npublic inline fun JQuery.buttonset(): JQuery = asDynamic().buttonset()\n\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\npublic inline fun JQuery.dialog(): JQuery =
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asDynamic().dialog()\n\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\npublic inline fun JQuery.dialog(params: Json): JQuery = asDynamic().dialog(params)\n\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\npublic inline fun JQuery.dialog(mode: String, param: String): Any? = asDynamic().dialog(mode, param)\n\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\npublic inline fun JQuery.dialog(mode: String): JQuery = asDynamic().dialog(mode)\n\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\npublic inline fun JQuery.dialog(mode: String, param: String, value: Any?): JQuery = asDynamic().dialog(mode, param, value)\n\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\npublic inline fun JQuery.button(): JQuery = asDynamic().button()\n\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\npublic inline fun JQuery.accordion(): JQuery = asDynamic().accordion()\n\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\npublic inline fun JQuery.draggable(params: Json): JQuery = asDynamic().draggable(params)\n\n@Deprecated(\"Use declarations from 'https://bintray.com/kotlin/js-externals/kotlin-js-jquery' package instead.\")\npublic inline fun JQuery.selectable(): JQuery = asDynamic().selectable()\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport kotlin.annotation.AnnotationTarget.*\n\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, VALUE_PARAMETER, PROPERTY_GETTER, PROPERTY_SETTER)\n@Deprecated(\"Use `external` modifier instead\", level = DeprecationLevel.ERROR)\npublic annotation class native(public val name: String = \"\")\n\n@Target(FUNCTION)\n@Deprecated(\"Use inline extension function with body using dynamic\")\npublic annotation class nativeGetter\n\n@Target(FUNCTION)\n@Deprecated(\"Use inline extension function with body using dynamic\")\npublic annotation class nativeSetter\n\n@Target(FUNCTION)\n@Deprecated(\"Use inline extension function with body using dynamic\")\npublic annotation class nativeInvoke\n\n@Target(CLASS, FUNCTION, PROPERTY)\ninternal annotation class library(public val name: String = \"\")\n\n@Target(CLASS)\ninternal annotation class marker\n\n/**\n * Gives a declaration (a function, a property or a class) specific name in JavaScript.\n *\n * This may be useful in the following cases:\n *\n * * There are two functions for which the compiler gives same name in JavaScript, you can\n *   mark one with `@JsName(...)` to prevent the compiler from reporting error.\n * * You are writing a JavaScript library in Kotlin. The compiler produces mangled names\n *   for functions with parameters, which is unnatural for usual JavaScript developer.\n *   You can put `@JsName(...)` on functions you want to be available from JavaScript.\n * * For some reason you want to rename declaration, e.g. there's common term in JavaScript\n *   for a concept provided by the declaration, which in uncommon in Kotlin.\n *\n * Example:\n *\n * ``` kotlin\n * class Person(val name: String) {\n *   fun hello() {\n *   println(\"Hello $name!\")\n *   }\n *\n *   @JsName(\"helloWithGreeting\")\n *   fun hello(greeting: String) {\n *   println(\"$greeting $name!\")\n *   }\n * }\n * ```\n *\n * @property name the name which compiler uses both for declaration itself and for all references to the declaration.\n *   It's required to denote a valid JavaScript identifier.\n *\n */\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, FUNCTION, PROPERTY, CONSTRUCTOR, PROPERTY_GETTER, PROPERTY_SETTER)\npublic actual annotation class JsName(actual val name: String)\n\n/**\n * Denotes an `external` declaration that must be imported from native JavaScript library.\n *\n * The compiler produces the code relevant for the target module system, for example, in case of CommonJS,\n * it will import the declaration via the `require(...)` function.\n *\n * The annotation can be used on top-level external declarations (classes, properties, functions) and files.\n * In case of file (which can't be `external`) the following rule applies: all the declarations in\n * the file must be `external`. By applying `@JsModule(...)` on a file you tell the compiler to import a JavaScript object\n * that contain all the declarations from the file.\n *\n * Example:\n *\n * ``` kotlin\n * @JsModule(\"jquery\")\n * external abstract

class JQuery() {\n * // some declarations here\n * }\n *\n * @JsModule(\"jquery\")\n * external fun JQuery(element: Element): JQuery\n * ```\n *\n * @property import name of a module to import declaration from.\n * It is not interpreted by the Kotlin compiler, it's passed as is directly to the target module system.\n *\n * @see JsNonModule\n */\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\npublic annotation class JsModule(val import: String)\n\n/**\n * Denotes an `external` declaration that can be used without module system.\n *\n * By default, an `external` declaration is available regardless your target module system.\n * However, by applying [JsModule] annotation you can make a declaration unavailable to *plain* module system.\n * Some JavaScript libraries are distributed both as a standalone downloadable piece of JavaScript and as a module available\n * as an npm package.\n * To tell the Kotlin compiler to accept both cases, you can augment [JsModule] with the `@JsNonModule` annotation.\n *\n * For example:\n *\n * ``` kotlin\n * @JsModule(\"jquery\")\n * @JsNonModule\n * @JsName(\"$\")\n * external abstract class JQuery() {\n * // some declarations here\n * }\n *\n * @JsModule(\"jquery\")\n * @JsNonModule\n * @JsName(\"$\")\n * external fun JQuery(element: Element): JQuery\n * ```\n *\n * @see JsModule\n */\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\npublic annotation class JsNonModule\n\n/**\n * Adds prefix to `external` declarations in a source file.\n *\n * JavaScript does not have concept of packages (namespaces). They are usually emulated by nested objects.\n * The compiler turns references to `external` declarations either to plain unprefixed names (in case of *plain* modules)\n * or to plain imports.\n * However, if a JavaScript library provides its declarations in packages, you won't be satisfied with this.\n * You can tell the compiler to generate additional prefix before references to `external` declarations using the `@JsQualifier(...)`\n * annotation.\n *\n * Note that a file marked with the `@JsQualifier(...)` annotation can't contain non-`external` declarations.\n *\n * Example:\n *\n * ```\n * @file:JsQualifier(\"my.jsPackageName\")\n * package some.kotlinPackage\n *\n * external fun foo(x: Int)\n *\n * external fun bar(): String\n * ```\n *\n * @property value the qualifier to add to the declarations in the generated code.\n * It must be a sequence of valid JavaScript identifiers separated by the `.` character.\n * Examples of valid qualifiers are: `foo`, `bar.Baz`, `_.$0.f`.\n *\n * @see JsModule\n */\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.FILE)\npublic annotation class JsQualifier(val value: String)\n\n/**\n * Marks experimental JS export annotations.\n *\n * Note that behaviour of these annotations will likely be changed in the future.\n *\n * Usages of such annotations will be reported as warnings unless an explicit opt-in with\n * the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalJsExport::class)`,\n * or with the `-Xuse-experimental=kotlin.js.ExperimentalJsExport` compiler option is given.\n */\n@Experimental(level = Experimental.Level.WARNING)\n@SinceKotlin(\"1.3\")\npublic annotation class ExperimentalJsExport\n\n/**\n * Exports top-level declaration.\n *\n * Used in future IR-based backend.\n * Has no effect in current JS backend.\n */\n@ExperimentalJsExport\n@SinceKotlin(\"1.3\")\n@Retention(AnnotationRetention.BINARY)\n@Target(CLASS, PROPERTY, FUNCTION, FILE)\npublic annotation class JsExport\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.jvm\n\n// these are used in common generated code in stdlib\n\n// TODO: find how to deprecate these ones\n\n@Target(AnnotationTarget.FIELD)\n@Retention(AnnotationRetention.SOURCE)\npublic actual annotation class Volatile\n\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)\n@Retention(AnnotationRetention.SOURCE)\npublic actual annotation class Synchronized\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the [MutableCollection] interface.\n *\n * @param E the type of elements contained in the collection. The collection is invariant on its element type.\n

*/\npublic actual abstract class AbstractMutableCollection<E> protected actual constructor() : AbstractCollection<E>(), MutableCollection<E> {\n\n actual abstract override fun add(element: E): Boolean\n\n actual override fun remove(element: E): Boolean {\n val iterator = iterator()\n while (iterator.hasNext()) {\n if (iterator.next() == element) {\n iterator.remove()\n return true\n }\n }\n return false\n }\n\n actual override fun addAll(elements: Collection<E>): Boolean {\n var modified = false\n for (element in elements) {\n if (add(element)) modified = true\n }\n return modified\n }\n\n actual override fun removeAll(elements: Collection<E>):
Boolean = (this as MutableIterable<E>).removeAll { it in elements }\n actual override fun retainAll(elements: Collection<E>): Boolean = (this as MutableIterable<E>).removeAll { it !in elements }\n\n actual override fun clear(): Unit {\n val iterator = this.iterator()\n while (iterator.hasNext()) {\n iterator.next()\n iterator.remove()\n }\n }\n\n @JsName(\"toJSON\")\n open fun toJSON(): Any = this.toArray()\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT AbstractList\n * Copyright 2007 Google Inc.\n*/\n\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the [MutableList] interface.\n *\n * @param E the type of elements contained in the list. The list is invariant on its element type.\n */\npublic
actual abstract class AbstractMutableList<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableList<E> {\n protected var modCount: Int = 0\n\n abstract override fun add(index: Int, element: E): Unit\n abstract override fun removeAt(index: Int): E\n abstract override fun set(index: Int, element: E): E\n\n /**\n * Adds the specified element to the end of this list.\n *\n * @return `true` because the list is always modified as the result of this operation.\n */\n actual override fun add(element: E): Boolean {\n add(size, element)\n return true\n }\n\n actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\n var _index = index\n var changed = false\n for (e in elements) {\n add(_index++, e)\n changed = true\n }\n return changed\n }\n\n actual override fun clear() {\n removeRange(0, size)\n }\n\n actual override fun removeAll(elements:
Collection<E>): Boolean = removeAll { it in elements }\n actual override fun retainAll(elements: Collection<E>): Boolean = removeAll { it !in elements }\n\n\n actual override fun iterator(): MutableIterator<E> = IteratorImpl()\n\n actual override fun contains(element: E): Boolean = indexOf(element) >= 0\n\n actual override fun indexOf(element: E): Int {\n for (index in 0..lastIndex) {\n if (get(index) == element) {\n return index\n }\n }\n return -1\n }\n\n actual override fun lastIndexOf(element: E): Int {\n for (index in lastIndex downTo 0) {\n if (get(index) == element) {\n return index\n }\n }\n return -1\n }\n\n actual override fun listIterator(): MutableListIterator<E> = listIterator(0)\n actual override fun listIterator(index: Int): MutableListIterator<E> = ListIteratorImpl(index)\n\n\n actual override fun subList(fromIndex:
Int, toIndex: Int): MutableList<E> = SubList(this, fromIndex, toIndex)\n\n /**\n * Removes the range of elements from this list starting from [fromIndex] and ending with but not including [toIndex].\n */\n protected open fun removeRange(fromIndex: Int, toIndex: Int) {\n val iterator = listIterator(fromIndex)\n repeat(toIndex - fromIndex) {\n iterator.next()\n iterator.remove()\n }\n }\n\n /**\n * Compares this list with another list instance with the ordered structural equality.\n *\n * @return true, if [other] instance is a [List] of the same size, which contains the same elements in the same order.\n */\n override fun equals(other: Any?): Boolean {\n if (other === this) return true\n if (other !is List<*>) return false\n\n return AbstractList.orderedEquals(this, other)\n }\n\n /**\n * Returns the hash code value for this list.\n */\n override fun hashCode(): Int
= AbstractList.orderedHashCode(this)\n\n\n private open inner class IteratorImpl : MutableIterator<E> {\n /** the index of the item that will be returned on the next call to [next]`()` */\n protected var index = 0\n /** the index of the item that was returned on the previous call to [next]`()`\n * or [ListIterator.previous]`()` (for `ListIterator`),\n * -1 if no such item exists\n */\n protected var last = -1\n\n override fun

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hasNext(): Boolean = index < size\n\n        override fun next(): E {\n            if (!hasNext()) throw NoSuchElementException()\n            last = index++\n            return get(last)\n        }\n\n        override fun remove() {\n            check(last != -1) { \"Call next() or previous() before removing element from the iterator.\" }\n\n            removeAt(last)\n            index = last\n            last = -1\n        }\n    }\n\n    /**\n     * Implementation of `MutableListIterator` for abstract lists.\n     */\n    private inner class ListIteratorImpl(index: Int) : IteratorImpl(), MutableListIterator<E> {\n\n        init {\n            AbstractList.checkPositionIndex(index, this@AbstractMutableList.size)\n            this.index = index\n        }\n\n        override fun hasPrevious(): Boolean = index > 0\n\n        override fun nextIndex(): Int = index\n\n        override fun previous(): E {\n            if (!hasPrevious()) throw NoSuchElementException()\n\n            last = --index\n            return get(last)\n        }\n\n        override fun previousIndex(): Int = index - 1\n\n        override fun add(element: E) {\n            add(index, element)\n            index++\n            last = -1\n        }\n\n        override fun set(element: E) {\n            check(last != -1) { \"Call next() or previous() before updating element value with the iterator.\" }\n            this@AbstractMutableList[last] = element\n        }\n    }\n\n    private class SubList<E>(private val list: AbstractMutableList<E>, private val fromIndex: Int, toIndex: Int) : AbstractMutableList<E>(), RandomAccess {\n        private var _size: Int = 0\n\n        init {\n            AbstractList.checkRangeIndexes(fromIndex, toIndex, list.size)\n            this._size = toIndex - fromIndex\n        }\n\n        override fun add(index: Int, element: E) {\n            AbstractList.checkPositionIndex(index, _size)\n\n            list.add(fromIndex + index, element)\n            _size++\n        }\n\n        override fun get(index: Int): E {\n            AbstractList.checkElementIndex(index, _size)\n\n            return list[fromIndex + index]\n        }\n\n        override fun removeAt(index: Int): E {\n            AbstractList.checkElementIndex(index, _size)\n\n            val result = list.removeAt(fromIndex + index)\n            _size--\n            return result\n        }\n\n        override fun set(index: Int, element: E): E {\n            AbstractList.checkElementIndex(index, _size)\n\n            return list.set(fromIndex + index, element)\n        }\n\n        override val size: Int get() = _size\n    }\n\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT AbstractMap\n * Copyright 2007 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the [MutableMap] interface.\n *\n * The implementor is required to implement [entries] property, which should return mutable set of map entries, and [put] function.\n *\n * @param K the type of map keys. The map is invariant on its key type.\n * @param V the type of map values. The map is invariant on its value type.\n */\npublic actual abstract class AbstractMutableMap<K, V> protected actual constructor() : AbstractMap<K, V>(), MutableMap<K, V> {\n\n    /**\n     * A mutable [Map.Entry] shared by several [Map] implementations.\n     */\n    internal open class SimpleEntry<K, V>(override val key: K, value: V) : MutableMap.MutableEntry<K, V> {\n        constructor(entry: Map.Entry<K, V>) : this(entry.key, entry.value)\n\n        private var _value = value\n\n        override val value: V get() = _value\n\n        override fun setValue(newValue: V): V {\n            val oldValue = this._value\n            this._value = newValue\n            return oldValue\n        }\n\n        override fun hashCode(): Int = entryHashCode(this)\n        override fun toString(): String = entryToString(this)\n        override fun equals(other: Any?): Boolean = entryEquals(this, other)\n\n    }\n\n    actual override fun clear() {\n        entries.clear()\n    }\n\n    private var _keys: MutableSet<K>? = null\n    actual override val keys: MutableSet<K>\n        get() {\n            if (_keys == null) {\n                _keys = object : AbstractMutableSet<K>() {\n                    override fun add(element: K): Boolean = throw UnsupportedOperationException(\"Add is not supported on keys\")\n                    override fun clear() {\n                        this@AbstractMutableMap.clear()\n                    }\n\n                    override operator fun contains(element: K): Boolean = containsKey(element)\n\n                    override operator fun iterator(): MutableIterator<K> {\n                        val entryIterator = entries.iterator()\n                        return object : MutableIterator<K> {\n                            override fun hasNext(): Boolean = entryIterator.hasNext()\n                            override fun next(): K = entryIterator.next().key\n                            override fun remove() = entryIterator.remove()\n                        }\n                    }\n\n                    override fun remove(element: K): Boolean {\n                        if (containsKey(element)) {\n                            this@AbstractMutableMap.remove(element)\n
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return true\n }\n return false\n }\n\n override val size: Int get() = this@AbstractMutableMap.size\n }\n }\n return _keys!!\n }\n\n actual abstract override fun put(key: K, value: V): V?\n\n actual override fun putAll(from: Map<out K, V>) {\n for ((key, value) in from) {\n put(key, value)\n }\n }\n\n private var _values: MutableCollection<V>? = null\n actual override val values: MutableCollection<V>\n get() {\n if (_values == null) {\n _values = object : AbstractMutableCollection<V>() {\n override fun add(element: V): Boolean = throw UnsupportedOperationException(\"Add is not supported on values\")\n override fun clear() = this@AbstractMutableMap.clear()\n\n override operator fun contains(element: V):
Boolean = containsValue(element)\n\n override operator fun iterator(): MutableIterator<V> {\n val entryIterator = entries.iterator()\n return object : MutableIterator<V> {\n override fun hasNext(): Boolean = entryIterator.hasNext()\n override fun next(): V = entryIterator.next().value\n override fun remove() = entryIterator.remove()\n }\n }\n\n override val size: Int get() = this@AbstractMutableMap.size\n\n // TODO: should we implement them this way? Currently it's unspecified in JVM\n override fun equals(other: Any?): Boolean {\n if (this === other) return true\n if (other !is Collection<*>) return false\n return AbstractList.orderedEquals(this, other)\n }\n\n override fun hashCode(): Int = AbstractList.orderedHashCode(this)\n }\n }\n return _values!!\n }\n\n actual override fun remove(key: K): V? {\n val iter = entries.iterator()\n while (iter.hasNext()) {\n val entry = iter.next()\n val k = entry.key\n if (key == k) {\n val value = entry.value\n iter.remove()\n return value\n }\n }\n return null\n }\n\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the [MutableSet] interface.\n *\n * @param E the type of elements contained in the set. The set is invariant on its element type.\n */\npublic actual abstract class
AbstractMutableSet<E> protected actual constructor() : AbstractMutableCollection<E>(), MutableSet<E> {\n\n /**\n * Compares this set with another set instance with the unordered structural equality.\n *\n * @return `true`, if [other] instance is a [Set] of the same size, all elements of which are contained in this set.\n */\n override fun equals(other: Any?): Boolean {\n if (other === this) return true\n if (other !is Set<*>) return false\n return AbstractSet.setEquals(this, other)\n }\n\n /**\n * Returns the hash code value for this set.\n */\n override fun hashCode(): Int = AbstractSet.unorderedHashCode(this)\n\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a [MutableList] implementation, which uses a resizable
array as its backing storage.\n *\n * This implementation doesn't provide a way to manage capacity, as backing JS array is resizeable itself.\n * There is no speed advantage to pre-allocating array sizes in JavaScript, so this implementation does not include any of the\n * capacity and \"growth increment\" concepts.\n */\npublic actual open class ArrayList<E> internal constructor(private var array: Array<Any?>) : AbstractMutableList<E>(), MutableList<E>, RandomAccess {\n\n /**\n * Creates an empty [ArrayList].\n */\n public actual constructor() : this(emptyArray()) {}\n\n /**\n * Creates an empty [ArrayList].\n * @param initialCapacity initial capacity (ignored)\n */\n @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n public actual constructor(initialCapacity: Int = 0) : this(emptyArray()) {}\n\n /**\n * Creates an [ArrayList] filled from the [elements] collection.\n */\n public actual constructor(elements: Collection<E>) : this(elements.toTypedArray<Any?>())
{}\n\n /** Does nothing in this ArrayList implementation. */\n public actual fun trimToSize() {}\n\n /** Does nothing in this ArrayList implementation. */\n public actual fun ensureCapacity(minCapacity: Int) {}\n\n actual override val size: Int get() = array.size\n @Suppress(\"UNCHECKED_CAST\")\n actual override fun get(index:

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Int): E = array[rangeCheck(index)] as E\n    actual override fun set(index: Int, element: E): E {\n rangeCheck(index)\n        @Suppress(\"UNCHECKED_CAST\")\n        return array[index].apply { array[index] = element } as E\n    }\n\n    actual override fun add(element: E): Boolean {\n        array.asDynamic().push(element)\n    modCount++\n        return true\n    }\n\n    actual override fun add(index: Int, element: E): Unit {\n array.asDynamic().splice(insertionRangeCheck(index), 0, element)\n        modCount++\n    }\n\n    actual override fun addAll(elements: Collection<E>): Boolean {\n
    if (elements.isEmpty()) return false\n\n        array += elements.toTypedArray<Any?>()\n        modCount++\n
    return true\n    }\n\n    actual override fun addAll(index: Int, elements: Collection<E>): Boolean {\n insertionRangeCheck(index)\n\n        if (index == size) return addAll(elements)\n        if (elements.isEmpty()) return false\n        when (index) {\n            size -> return addAll(elements)\n            0 -> array = elements.toTypedArray<Any?>() + array\n            else -> array = array.copyOfRange(0, index).asDynamic().concat(elements.toTypedArray<Any?>(), array.copyOfRange(index, size))\n        }\n\n modCount++\n        return true\n    }\n\n    actual override fun removeAt(index: Int): E {\n        rangeCheck(index)\n    modCount++\n        return if (index == lastIndex)\n            array.asDynamic().pop()\n        else\n array.asDynamic().splice(index, 1)[0]\n    }\n\n    actual override fun remove(element: E): Boolean {\n
    for (index in array.indices) {\n            if (array[index] == element) {\n array.asDynamic().splice(index, 1)\n                modCount++\n                return true\n            }\n        }\n        return false\n    }\n\n    override fun removeRange(fromIndex: Int, toIndex: Int) {\n        modCount++\n array.asDynamic().splice(fromIndex, toIndex - fromIndex)\n    }\n\n    actual override fun clear() {\n        array = emptyArray()\n        modCount++\n    }\n\n\n    actual override fun indexOf(element: E): Int = array.indexOf(element)\n\n    actual override fun lastIndexOf(element: E): Int = array.lastIndexOf(element)\n\n override fun toString() = arrayToString(array)\n    override fun toArray(): Array<Any?> = js(\"[]\").slice.call(array)\n\n\n    private fun rangeCheck(index: Int) = index.apply {\n AbstractList.checkElementIndex(index, size)\n    }\n\n    private fun insertionRangeCheck(index: Int) = index.apply {\n        AbstractList.checkPositionIndex(index,
 size)\n    }\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal fun <T> sortArrayWith(array: Array<out T>, comparison: (T, T) -> Int) {\n    if (getStableSortingIsSupported()) {\n        array.asDynamic().sort(comparison)\n    } else {\n mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, Comparator(comparison))\n    }\n}\n\ninternal fun <T> sortArrayWith(array: Array<out T>, comparator: Comparator<in T>) {\n    if (getStableSortingIsSupported()) {\n        val comparison = { a: T, b: T -> comparator.compare(a, b) }\n        array.asDynamic().sort(comparison)\n    } else {\n        mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, comparator)\n    }\n}\n\ninternal fun <T : Comparable<T>> sortArray(array: Array<out T>) {\n    if (getStableSortingIsSupported())
 {\n        val comparison = { a: T, b: T -> a.compareTo(b) }\n        array.asDynamic().sort(comparison)\n    } else {\n
    mergeSort(array.unsafeCast<Array<T>>(), 0, array.lastIndex, naturalOrder())\n    }\n}\n\nprivate var _stableSortingIsSupported: Boolean? = null\nprivate fun getStableSortingIsSupported(): Boolean {\n _stableSortingIsSupported?.let { return it }\n    _stableSortingIsSupported = false\n\n    val array = js(\"[]\").unsafeCast<Array<Int>>()\n    // known implementations may use stable sort for arrays of up to 512 elements\n    // so we create slightly more elements to test stability\n    for (index in 0 until 600) array.asDynamic().push(index)\n    val comparison = { a: Int, b: Int -> (a and 3) - (b and 3) }\n array.asDynamic().sort(comparison)\n    for (index in 1 until array.size) {\n        val a = array[index - 1]\n        val b = array[index]\n        if ((a and 3) == (b and 3) && a >= b) return false\n    }\n    _stableSortingIsSupported
 = true\n    return true\n}\n\n\nprivate fun <T> mergeSort(array: Array<T>, start: Int, endInclusive: Int, comparator: Comparator<in T>) {\n    val buffer = arrayOfNulls<Any?>(array.size).unsafeCast<Array<T>>()\n    val result = mergeSort(array, buffer, start, endInclusive, comparator)\n    if (result !== array) {\n        result.forEachIndexed { i, v -> array[i] = v }\n    }\n}\n\n// Both start and end are inclusive indices.\nprivate fun <T> mergeSort(array: Array<T>, buffer: Array<T>, start: Int, end: Int, comparator: Comparator<in T>): Array<T> {\n    if (start == end)
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{\n return array\n }\n\n val median = (start + end) / 2\n val left = mergeSort(array, buffer, start, median, comparator)\n val right = mergeSort(array, buffer, median + 1, end, comparator)\n\n val target = if (left === buffer) array else buffer\n\n // Merge.\n var leftIndex = start\n var rightIndex = median + 1\n for (i in start..end) {\n when {\n leftIndex <= median && rightIndex <= end -> {\n val leftValue = left[leftIndex]\n val rightValue = right[rightIndex]\n\n if (comparator.compare(leftValue, rightValue) <= 0) {\n target[i] = leftValue\n leftIndex++\n } else {\n target[i] = rightValue\n rightIndex++\n }\n }\n leftIndex <= median -> {\n target[i] = left[leftIndex]\n leftIndex++\n }\n else /* rightIndex <= end */ -> {\n target[i] = right[rightIndex]\n rightIndex++\n Unit // TODO: Fix KT-31506\n }\n }\n }\n\n return target\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n\n@UseExperimental(ExperimentalUnsignedTypes::class)\n@SinceKotlin(\"1.3\")\n@kotlin.js.JsName(\"contentDeepHashCodeImpl\")\ninternal fun <T> Array<out T>.contentDeepHashCodeImpl(): Int {\n var result = 1\n for (element in this) {\n val elementHash = when {\n element == null -> 0\n isArrayish(element) -> (element.unsafeCast<Array<*>>()).contentDeepHashCodeImpl()\n\n element is UByteArray -> element.contentHashCode()\n element is UShortArray -> element.contentHashCode()\n element is UIntArray -> element.contentHashCode()\n element is ULongArray -> element.contentHashCode()\n\n else -> element.hashCode()\n }\n\n result = 31 * result + elementHash\n }\n return result\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal interface EqualityComparator {\n /**\n * Subclasses must override to return a value indicating\n * whether or not two keys or values are equal.\n */\n abstract fun equals(value1: Any?, value2: Any?): Boolean\n\n /**\n * Subclasses must override to return the hash code of a given key.\n */\n abstract fun getHashCode(value: Any?): Int\n\n\n object HashCode : EqualityComparator {\n override fun equals(value1: Any?, value2: Any?): Boolean = value1 == value2\n\n override fun getHashCode(value: Any?): Int = value?.hashCode() ?: 0\n }\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT AbstractHashMap\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based implementation of the [MutableMap] interface.\n *\n * This implementation makes no guarantees regarding the order of enumeration of [keys], [values] and [entries] collections.\n */\npublic actual open class HashMap<K, V> : AbstractMutableMap<K, V>, MutableMap<K, V> {\n\n private inner class EntrySet : AbstractMutableSet<MutableEntry<K, V>>() {\n\n override fun add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException(\"Add is not supported on entries\")\n override fun clear() {\n this@HashMap.clear()\n }\n\n override operator fun contains(element: MutableEntry<K, V>): Boolean = containsEntry(element)\n\n override operator fun iterator(): MutableIterator<MutableEntry<K, V>> = internalMap.iterator()\n\n override fun remove(element: MutableEntry<K, V>): Boolean {\n if (contains(element)) {\n this@HashMap.remove(element.key)\n return true\n }\n return false\n }\n\n override val size: Int get() = this@HashMap.size\n }\n\n\n /**\n * Internal implementation of the map: either string-based or hashcode-based.\n */\n private val internalMap: InternalMap<K, V>\n\n private val equality: EqualityComparator\n\n internal constructor(internalMap: InternalMap<K, V>) : super() {\n this.internalMap = internalMap\n this.equality = internalMap.equality\n }\n\n /**\n * Constructs an empty [HashMap] instance.\n */\n actual constructor() : this(InternalHashCodeMap(EqualityComparator.HashCode))\n\n /**\n * Constructs an empty [HashMap] instance.\n *\n * @param initialCapacity the initial capacity (ignored)\n * @param loadFactor the load factor (ignored)\n *\n * @throws IllegalArgumentException if the initial capacity or

load factor are negative\n   */\n   @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n   actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) : this() {\n   // This implementation of HashMap has no need of load factors or capacities.\n   require(initialCapacity >= 0) { \"Negative initial capacity: $initialCapacity\" }\n   require(loadFactor >= 0) { \"Non-positive load factor: $loadFactor\" }\n   }\n\n   actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n\n   /**\n   * Constructs an instance of [HashMap] filled with the contents of the specified [original] map.\n   */\n   actual constructor(original: Map<out K, V>) : this() {\n   this.putAll(original)\n   }\n\n   actual override fun clear() {\n   internalMap.clear()\n// structureChanged(this)\n   }\n\n   actual override fun containsKey(key: K): Boolean = internalMap.contains(key)\n\n   actual override fun containsValue(value: V): Boolean = internalMap.any { equality.equals(it.value, value) }\n\n
    private var _entries: MutableSet<MutableMap.MutableEntry<K, V>>? = null\n   actual override val entries: MutableSet<MutableMap.MutableEntry<K, V>>\n   get() {\n   if (_entries == null) {\n   _entries = createEntrySet()\n   }\n   return _entries!!\n   }\n\n   protected open fun createEntrySet(): MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n   actual override operator fun get(key: K): V? = internalMap.get(key)\n\n   actual override fun put(key: K, value: V): V? = internalMap.put(key, value)\n\n   actual override fun remove(key: K): V? = internalMap.remove(key)\n\n   actual override val size: Int get() = internalMap.size\n\n}\n\n/**\n * Constructs the specialized implementation of [HashMap] with [String] keys, which stores the keys as properties of\n * JS object without hashing them.\n */\npublic fun <V> stringMapOf(vararg pairs: Pair<String, V>): HashMap<String, V> {\n   return HashMap<String, V>(InternalStringMap(EqualityComparator.HashCode)).apply
    { putAll(pairs) }\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT HashSet\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * The implementation of the [MutableSet] interface, backed by a [HashMap] instance.\n */\npublic actual open class HashSet<E> : AbstractMutableSet<E>, MutableSet<E> {\n\n   private val map: HashMap<E, Any>\n\n   /**\n   * Constructs a new empty [HashSet].\n   */\n   actual constructor() {\n   map = HashMap<E, Any>()\n   }\n\n   /**\n   * Constructs a new [HashSet] filled with the elements of the specified collection.\n   */\n   actual constructor(elements: Collection<E>) {\n   map = HashMap<E, Any>(elements.size)\n   addAll(elements)\n   }\n\n   /**\n   * Constructs a new empty [HashSet].\n   *\n   * @param initialCapacity the initial capacity (ignored)\n   * @param loadFactor   the load factor (ignored)\n   *\n   * @throws IllegalArgumentException if the initial capacity or load factor are negative\n   */\n   @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n   actual constructor(initialCapacity: Int, loadFactor: Float = 0.0f) {\n   map = HashMap<E, Any>(initialCapacity, loadFactor)\n   }\n\n   actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n   /**\n   * Protected constructor to specify the underlying map. This is used by\n   * LinkedHashSet.\n\n   * @param map underlying map to use.\n   */\n   internal constructor(map: HashMap<E, Any>) {\n   this.map = map\n   }\n\n   actual override fun add(element: E): Boolean {\n   val old = map.put(element, this)\n   return old == null\n   }\n\n   actual override fun clear() {\n   map.clear()\n   }\n\n//   public override fun clone(): Any
    {\n//   return HashSet<E>(this)\n//   }\n\n   actual override operator fun contains(element: E): Boolean = map.containsKey(element)\n\n   actual override fun isEmpty(): Boolean = map.isEmpty()\n\n   actual override fun iterator(): MutableIterator<E> = map.keys.iterator()\n\n   actual override fun remove(element: E): Boolean = map.remove(element) != null\n\n   actual override val size: Int get() = map.size\n\n}\n\n/**\n * Creates a new instance of the specialized implementation of [HashSet] with the specified [String] elements,\n * which elements the keys as properties of JS object without hashing them.\n */\npublic fun stringSetOf(vararg elements: String): HashSet<String> {\n   return HashSet(stringMapOf<Any>()).apply { addAll(elements) }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT

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InternalHashCodeMap\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\nimport kotlin.collections.AbstractMutableMap.SimpleEntry\n\n/**\n * A simple wrapper around JavaScriptObject to provide [java.util.Map]-like semantics for any\n * key type.\n *\n *\n * Implementation notes:\n *\n *\n * A key's hashCode is the index in backingMap which should contain that key. Since several keys may\n * have the same hash, each value in hashCodeMap is actually an array containing all entries whose\n * keys share the same hash.\n */\ninternal class InternalHashCodeMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {\n\n    private var backingMap: dynamic = createJsMap()\n    override var size: Int = 0\n        private set\n\n    override fun put(key: K, value: V): V? {\n        val hashCode = equality.getHashCode(key)\n        val chainOrEntry = getChainOrEntryOrNull(hashCode)\n        if (chainOrEntry == null)
 {\n            // This is a new chain, put it to the map.\n            backingMap[hashCode] = SimpleEntry(key, value)\n
 } else {\n            if (chainOrEntry !is Array<*>) {\n                // It is an entry\n                val entry: SimpleEntry<K, V> = chainOrEntry\n                if (equality.equals(entry.key, key)) {\n                    return entry.setValue(value)\n
        } else {\n                    backingMap[hashCode] = arrayOf(entry, SimpleEntry(key, value))\n                    size++\n
                return null\n                }\n            } else {\n                // Chain already exists, perhaps key also exists.\n
        val chain: Array<MutableEntry<K, V>> = chainOrEntry\n                val entry = chain.findEntryInChain(key)\n
            if (entry != null) {\n                    return entry.setValue(value)\n                }\n
chain.asDynamic().push(SimpleEntry(key, value))\n            }\n        }\n        size++\n//
        structureChanged(host)\n        return null\n    }\n\n    override fun remove(key: K): V? {\n        val hashCode = equality.getHashCode(key)\n        val chainOrEntry = getChainOrEntryOrNull(hashCode) ?: return null\n        if (chainOrEntry !is Array<*>) {\n            val entry: MutableEntry<K, V> = chainOrEntry\n            if (equality.equals(entry.key, key)) {\n                jsDeleteProperty(backingMap, hashCode)\n                size--\n
return entry.value\n            } else {\n                return null\n            }\n        } else {\n            val chain: Array<MutableEntry<K, V>> = chainOrEntry\n            for (index in chain.indices) {\n                val entry = chain[index]\n                if (equality.equals(key, entry.key)) {\n                    if (chain.size == 1) {\n
chain.asDynamic().length = 0\n                        // remove the whole array\n
jsDeleteProperty(backingMap, hashCode)\n
                } else {\n                        // splice out the entry we're removing\n
chain.asDynamic().splice(index, 1)\n                    }\n                    size--\n//                    structureChanged(host)\n
        return entry.value\n                }\n            }\n        }\n        return null\n    }\n\n    override fun clear() {\n        backingMap = createJsMap()\n        size = 0\n    }\n\n    override fun contains(key: K): Boolean = getEntry(key) != null\n\n    override fun get(key: K): V? = getEntry(key)?.value\n\n    private fun getEntry(key: K): MutableEntry<K, V>? {\n        val chainOrEntry = getChainOrEntryOrNull(equality.getHashCode(key)) ?: return null\n        if (chainOrEntry !is Array<*>) {\n            val entry: MutableEntry<K, V> = chainOrEntry\n            if (equality.equals(entry.key, key)) {\n                return entry\n            } else {\n                return null\n            }\n        } else {\n
            val chain: Array<MutableEntry<K, V>> = chainOrEntry\n            return chain.findEntryInChain(key)\n
}\n    }\n\n    private fun Array<MutableEntry<K, V>>.findEntryInChain(key: K): MutableEntry<K, V>? =\n
firstOrNull { entry -> equality.equals(entry.key, key) }\n\n    override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n\n        return object : MutableIterator<MutableEntry<K, V>> {\n
var state = -1 // -1 not ready, 0 - ready, 1 - done\n\n            val keys: Array<String> = js(\"Object\").keys(backingMap)\n            var keyIndex = -1\n\n            var chainOrEntry: dynamic = null\n
var isChain = false\n            var itemIndex = -1\n            var lastEntry: MutableEntry<K, V>? = null\n\n
private fun computeNext(): Int {\n                if (chainOrEntry != null && isChain) {\n                    val chainSize: Int = chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>().size\n                    if (++itemIndex
 < chainSize)\n                        return 0\n                }\n\n                if (++keyIndex < keys.size) {\n
chainOrEntry = backingMap[keys[keyIndex]]\n                    isChain = chainOrEntry is Array<*>\n
itemIndex = 0\n                    return 0\n                } else {\n                    chainOrEntry = null\n                    return 1\n
```

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}\n    }\n\n    override fun hasNext(): Boolean {\n        if (state == -1)\n            state = computeNext()\n        return state == 0\n    }\n\n    override fun next(): MutableEntry<K, V> {\n        if (!hasNext()) throw NoSuchElementException()\n        val lastEntry = if (isChain) {\n            chainOrEntry.unsafeCast<Array<MutableEntry<K, V>>>()[itemIndex]\n        } else {\n            chainOrEntry.unsafeCast<MutableEntry<K, V>>()\n        }\n        this.lastEntry = lastEntry\n        state = -1\n        return lastEntry\n    }\n\n    override fun remove() {\n        checkNotNull(lastEntry)\n        this@InternalHashCodeMap.remove(lastEntry!!.key)\n        lastEntry = null\n        // the chain being iterated just got modified by InternalHashCodeMap.remove\n        itemIndex--\n    }\n  }\n\n  private fun getChainOrEntryOrNull(hashCode: Int): dynamic {\n    val chainOrEntry = backingMap[hashCode]\n    return if (chainOrEntry === undefined) null else chainOrEntry\n  }\n\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * The common interface of [InternalStringMap] and [InternalHashCodeMap].\n */\ninternal interface InternalMap<K, V>
: MutableIterable<MutableMap.MutableEntry<K, V>> {\n    val equality: EqualityComparator\n    val size: Int\n    operator fun contains(key: K): Boolean\n    operator fun get(key: K): V?\n\n    fun put(key: K, value: V): V?\n    fun remove(key: K): V?\n    fun clear(): Unit\n\n    fun createJsMap(): dynamic {\n        val result = js(\"Object.create(null)\")\n        // force to switch object representation to dictionary mode\n        result[\"foo\"] = 1\n        jsDeleteProperty(result, \"foo\")\n        return result\n    }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT InternalStringMap\n * Copyright 2008 Google Inc.\n */\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * A simple wrapper around JavaScript Map for key type is string.\n *\n * Though this map is instantiated only with K=String, the K type is not fixed to String statically,\n * because we want to have it erased to Any? in order not to generate type-safe override bridges for\n * [get], [contains], [remove] etc, if they ever are generated.\n */\ninternal class InternalStringMap<K, V>(override val equality: EqualityComparator) : InternalMap<K, V> {\n\n    private var backingMap: dynamic = createJsMap()\n    override var size: Int = 0\n        private set\n\n//    /**\n//     * A mod count to track 'value' replacements in map to ensure that the 'value' that we have in the\n//     * iterator entry is guaranteed to be still correct.\n//     * This is to optimize for the common scenario where the values are not modified during\n//     * iterations where the entries are never stale.\n//     */\n//    private var valueMod: Int = 0\n\n    override operator fun contains(key: K): Boolean {\n        if (key !is String) return false\n        return backingMap[key] !== undefined\n    }\n\n    override operator fun get(key: K): V? {\n        if (key !is String) return null\n        val value = backingMap[key]\n        return if (value !== undefined) value.unsafeCast<V>() else null\n    }\n\n\n    override fun put(key: K, value: V): V? {\n        require(key is String)\n        val oldValue = backingMap[key]\n        backingMap[key] = value\n\n        if (oldValue === undefined) {\n            size++\n//            structureChanged(host)\n            return null\n        } else {\n//            valueMod++\n            return oldValue.unsafeCast<V>()\n        }\n    }\n\n    override fun remove(key: K): V? {\n        if (key !is String) return null\n        val value = backingMap[key]\n        if (value !== undefined) {\n            jsDeleteProperty(backingMap, key)\n            size--\n//            structureChanged(host)\n            return value.unsafeCast<V>()\n        } else {\n//            valueMod++\n            return null\n        }\n    }\n\n\n    override fun clear() {\n        backingMap = createJsMap()\n        size = 0\n    }\n\n\n    override fun iterator(): MutableIterator<MutableEntry<K, V>> {\n        return object : MutableIterator<MutableEntry<K, V>> {\n            private val keys: Array<String> = js(\"Object\").keys(backingMap)\n            private val iterator = keys.iterator()\n            private var lastKey: String? = null\n\n            override fun hasNext(): Boolean = iterator.hasNext()\n\n            override fun next(): MutableEntry<K, V> {\n                val key = iterator.next()\n                lastKey = key\n                @Suppress(\"UNCHECKED_CAST\")\n                return newMapEntry(key as K)\n            }\n\n            override fun remove() {\n                @Suppress(\"UNCHECKED_CAST\")\n
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this@InternalStringMap.remove(checkNotNull(lastKey) as K)\n            }\n        }\n    }\n\n    private fun newMapEntry(key: K): MutableEntry<K, V> = object : MutableEntry<K, V> {\n        override val key: K get() = key\n        override val value: V get() = this@InternalStringMap[key].unsafeCast<V>()\n\n        override fun setValue(newValue: V): V = this@InternalStringMap.put(key, newValue).unsafeCast<V>()\n\n        override fun hashCode(): Int = AbstractMap.entryHashCode(this)\n        override fun toString(): String = AbstractMap.entryToString(this)\n        override fun equals(other: Any?): Boolean = AbstractMap.entryEquals(this, other)\n    }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT LinkedHashMap\n * Copyright 2008 Google Inc.\n */\npackage kotlin.collections\n\nimport kotlin.collections.MutableMap.MutableEntry\n\n/**\n * Hash table based implementation of the [MutableMap] interface, which additionally preserves the insertion order\n * of entries during the iteration.\n *\n *
 The insertion order is preserved by maintaining a doubly-linked list of all of its entries.\n */\npublic actual open class LinkedHashMap<K, V> : HashMap<K, V>, MutableMap<K, V> {\n\n    /**\n     * The entry we use includes next/prev pointers for a doubly-linked circular\n     * list with a head node. This reduces the special cases we have to deal with\n     * in the list operations.\n\n     * Note that we duplicate the key from the underlying hash map so we can find\n     * the eldest entry. The alternative would have been to modify HashMap so more\n     * of the code was directly usable here, but this would have added some\n     * overhead to HashMap, or to reimplement most of the HashMap code here with\n     * small modifications. Paying a small storage cost only if you use\n     * LinkedHashMap and minimizing code size seemed like a better tradeoff\n     */\n    private class ChainEntry<K, V>(key: K, value: V) : AbstractMutableMap.SimpleEntry<K, V>(key, value) {\n        internal var next: ChainEntry<K, V>? = null\n        internal var prev: ChainEntry<K, V>? = null\n    }\n\n    private inner class EntrySet : AbstractMutableSet<MutableEntry<K, V>>() {\n\n        private inner class EntryIterator : MutableIterator<MutableEntry<K, V>> {\n            // The last entry that was returned from this iterator.\n            private var last: ChainEntry<K, V>? = null\n\n            // The next entry to return from this iterator.\n            private var next: ChainEntry<K, V>? = null\n\n            init {\n                next = head\n//                recordLastKnownStructure(map, this)\n            }\n\n            override fun hasNext(): Boolean {\n                return next !== null\n            }\n\n            override fun next(): MutableEntry<K, V> {\n//                checkStructuralChange(map, this)\n                if (!hasNext()) throw NoSuchElementException()\n\n                val current = next!!\n                last = current\n                next = current.next.takeIf { it !== head }\n                return current\n            }\n\n            override fun remove() {\n                check(last != null)\n//                checkStructuralChange(map, this)\n\n                last!!.remove()\n                map.remove(last!!.key)\n//                recordLastKnownStructure(map, this)\n                last = null\n            }\n        }\n\n        override fun add(element: MutableEntry<K, V>): Boolean = throw UnsupportedOperationException(\"Add is not supported on entries\")\n        override fun clear() {\n            this@LinkedHashMap.clear()\n        }\n\n        override operator fun contains(element: MutableEntry<K, V>): Boolean = containsEntry(element)\n\n        override operator fun iterator(): MutableIterator<MutableEntry<K, V>> = EntryIterator()\n\n        override fun remove(element: MutableEntry<K, V>): Boolean {\n            if (contains(element)) {\n                this@LinkedHashMap.remove(element.key)\n                return true\n            }\n            return false\n        }\n\n        override val size: Int get() = this@LinkedHashMap.size\n    }\n\n    /*\n     * The head of the insert order chain, which is a doubly-linked circular\n     * list.\n     *\n     * The most recently inserted node is at the end of the chain, ie.\n     * chain.prev.\n     */\n    private var head: ChainEntry<K, V>? = null\n\n    /**\n     * Add this node to the end of the chain.\n     */\n    private fun ChainEntry<K, V>.addToEnd() {\n        // This entry is not in the list.\n        check(next == null && prev == null)\n\n        val _head = head\n        if (_head == null) {\n            head = this\n            next = this\n            prev = this\n        } else {\n            // Chain is valid.\n            val _tail = checkNotNull(_head.prev)\n            // Update me.\n            prev = _tail\n            next = _head\n            // Update my new siblings: current head and old tail\n            _head.prev = this\n
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        _tail.next = this\n        }\n    }\n\n    /**\n     * Remove this node from the chain it is a part of.\n     */\n
private fun ChainEntry<K, V>.remove() {\n        if (this.next === this) {\n            // if this is single element, remove
head\n            head = null\n        } else {\n            if (head === this) {\n                // if this is first element, move head
to next\n                head = next\n            }\n            next!!.prev = prev\n            prev!!.next = next\n        }\n        next
= null\n        prev = null\n    }\n\n    /*\n     * The hashmap that keeps track of our entries and the chain. Note that
we\n     * duplicate the key here to eliminate changes to HashMap and minimize the\n     * code here, at the expense of
additional space.\n     */\n    private val map: HashMap<K, ChainEntry<K, V>>\n\n    /**\n     * Constructs an empty
[LinkedHashMap] instance.\n     */\n    actual constructor() : super() {\n        map = HashMap<K, ChainEntry<K,
V>>()\n
    }\n\n    internal constructor(backingMap: HashMap<K, Any>) : super() {\n
@Suppress(\"UNCHECKED_CAST\") // expected to work due to erasure\n        map = backingMap as
HashMap<K, ChainEntry<K, V>>\n    }\n\n    /**\n     * Constructs an empty [LinkedHashMap] instance.\n     *\n
* @param  initialCapacity the initial capacity (ignored)\n     * @param  loadFactor      the load factor (ignored)\n
*\n     * @throws IllegalArgumentException if the initial capacity or load factor are negative\n     */\n
@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n    actual constructor(initialCapacity:
Int, loadFactor: Float = 0.0f) : super(initialCapacity, loadFactor) {\n        map = HashMap<K, ChainEntry<K,
V>>()\n    }\n\n    actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n    /**\n     * Constructs an
instance of [LinkedHashMap] filled with the contents of the specified [original] map.\n     */\n    actual
constructor(original: Map<out K, V>)
    {\n        map = HashMap<K, ChainEntry<K, V>>()\n        this.putAll(original)\n    }\n\n    actual override fun
clear() {\n        map.clear()\n        head = null\n    }\n\n\n//    override fun clone(): Any {\n//        return
LinkedHashMap(this)\n//    }\n\n\n    actual override fun containsKey(key: K): Boolean = map.containsKey(key)\n\n
    actual override fun containsValue(value: V): Boolean {\n        var node: ChainEntry<K, V> = head ?: return false\n
        do {\n            if (node.value == value) {\n                return true\n            }\n            node = node.next!!\n        }
while (node !== head)\n        return false\n    }\n\n\n    override fun createEntrySet():
MutableSet<MutableMap.MutableEntry<K, V>> = EntrySet()\n\n    actual override operator fun get(key: K): V? =
map.get(key)?.value\n\n    actual override fun put(key: K, value: V): V? {\n        val old = map.get(key)\n        if (old
== null) {\n            val newEntry = ChainEntry(key, value)\n
    map.put(key, newEntry)\n            newEntry.addToEnd()\n            return null\n        } else {\n            return
old.setValue(value)\n        }\n    }\n\n    actual override fun remove(key: K): V? {\n        val entry =
map.remove(key)\n        if (entry != null) {\n            entry.remove()\n            return entry.value\n        }\n        return
null\n    }\n\n    actual override val size: Int get() = map.size\n\n}\n\n/**\n * Constructs the specialized
implementation of [LinkedHashMap] with [String] keys, which stores the keys as properties of\n * JS object without
hashing them.\n */\npublic fun <V> linkedStringMapOf(vararg pairs: Pair<String, V>): LinkedHashMap<String,
V> {\n    return LinkedHashMap<String, V>(stringMapOf<Any>()).apply { putAll(pairs) }\n}","/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n
 * Based on GWT LinkedHashSet\n * Copyright 2008 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * The
implementation of the [MutableSet] interface, backed by a [LinkedHashMap] instance.\n *\n * This implementation
preserves the insertion order of elements during the iteration.\n */\npublic actual open class LinkedHashSet<E> :
HashSet<E>, MutableSet<E> {\n\n    internal constructor(map: LinkedHashMap<E, Any>) : super(map)\n\n    /**\n
     * Constructs a new empty [LinkedHashSet].\n     */\n    actual constructor() : super(LinkedHashMap<E,
Any>())\n\n    /**\n     * Constructs a new [LinkedHashSet] filled with the elements of the specified collection.\n
*/\n    actual constructor(elements: Collection<E>) : super(LinkedHashMap<E, Any>()) {\n        addAll(elements)\n
    }\n\n    /**\n     * Constructs a new empty [LinkedHashSet].\n     *\n     * @param  initialCapacity the initial
capacity (ignored)\n     * @param  loadFactor      the load factor (ignored)\n     *\n     * @throws
    IllegalArgumentException if the initial capacity or load factor are negative\n     */\n
@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n    actual constructor(initialCapacity:
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Int, loadFactor: Float = 0.0f) : super(LinkedHashMap<E, Any>(initialCapacity, loadFactor))\n\n actual constructor(initialCapacity: Int) : this(initialCapacity, 0.0f)\n\n// public override fun clone(): Any {\n// return LinkedHashSet(this)\n// }\n\n}\n\n/**\n * Creates a new instance of the specialized implementation of [LinkedHashSet] with the specified [String] elements,\n * which elements the keys as properties of JS object without hashing them.\n */\npublic fun linkedStringSetOf(vararg elements: String): LinkedHashSet<String> {\n return LinkedHashSet(linkedStringMapOf<Any>()).apply { addAll(elements) }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found
in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.contracts.*\n\n\n@Deprecated(\"Do not use Synchronized annotation in pure Kotlin/JS code\", level = DeprecationLevel.ERROR)\npublic typealias Synchronized = kotlin.jvm.Synchronized\n\n@Deprecated(\"Do not use Volatile annotation in pure Kotlin/JS code\", level = DeprecationLevel.ERROR)\npublic typealias Volatile = kotlin.jvm.Volatile\n\n@kotlin.internal.InlineOnly\npublic actual inline fun <R> synchronized(lock: Any, block: () -> R): R {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return block()\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.io\n\ninternal abstract class BaseOutput {\n open fun println() {\n print(\"\\n\")\n }\n\n open fun println(message: Any?) {\n
print(message)\n println()\n }\n\n abstract fun print(message: Any?)\n\n open fun flush() {}\n}\n\n/** JsName used to make the declaration available outside of module to test it */\n@JsName(\"NodeJsOutput\")\ninternal class NodeJsOutput(val outputStream: dynamic) : BaseOutput() {\n override fun print(message: Any?) {\n // TODO: Using local variable because of bug in block decomposition lowering in IR backend\n val messageString = String(message)\n outputStream.write(messageString)\n }\n}\n\n/** JsName used to make the declaration available outside of module to test it */\n@JsName(\"OutputToConsoleLog\")\ninternal class OutputToConsoleLog : BaseOutput() {\n override fun print(message: Any?) {\n console.log(message)\n }\n\n override fun println(message: Any?) {\n console.log(message)\n }\n\n override fun println() {\n console.log(\"\")\n }\n}\n\n/** JsName used to make the declaration available outside
of module to test it and use at try.kotl.in */\n@JsName(\"BufferedOutput\")\ninternal open class BufferedOutput : BaseOutput() {\n var buffer = \"\"\n\n override fun print(message: Any?) {\n buffer += String(message)\n }\n\n override fun flush() {\n buffer = \"\"\n }\n}\n\n/** JsName used to make the declaration available outside of module to test it */\n@JsName(\"BufferedOutputToConsoleLog\")\ninternal class BufferedOutputToConsoleLog : BufferedOutput() {\n override fun print(message: Any?) {\n var s = String(message)\n val i = s.lastIndexOf('\\n')\n if (i >= 0) {\n buffer += s.substring(0, i)\n flush()\n s = s.substring(i + 1)\n }\n buffer += s\n }\n\n override fun flush() {\n console.log(buffer)\n buffer = \"\"\n }\n}\n\n/** JsName used to make the declaration available outside of module to test it and use at try.kotl.in */\n@JsName(\"output\")\ninternal var output
= run {\n val isNode: Boolean = js(\"typeof process !== 'undefined' && process.versions && !!process.versions.node\")\n if (isNode) NodeJsOutput(js(\"process.stdout\")) else BufferedOutputToConsoleLog()\n}\n\n@kotlin.internal.InlineOnly\nprivate inline fun String(value: Any?): String = js(\"String\")(value)\n\n/** Prints the line separator to the standard output stream. */\npublic actual fun println() {\n output.println()\n}\n\n/** Prints the given [message] and the line separator to the standard output stream. */\npublic actual fun println(message: Any?) {\n output.println(message)\n}\n\n/** Prints the given [message] to the standard output stream. */\npublic actual fun print(message: Any?) {\n output.print(message)\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.intrinsics.CoroutineSingletons.*\nimport kotlin.coroutines.intrinsics.COROUTINE_SUSPENDED\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal

actual class SafeContinuation<in T>\ninternal actual constructor(\n private val delegate: Continuation<T>,\n initialResult: Any?\n) : Continuation<T> {\n @PublishedApi\n internal actual constructor(delegate: Continuation<T>) : this(delegate, UNDECIDED)\n\n public actual override val context: CoroutineContext\n get() = delegate.context\n\n private var result: Any? = initialResult\n\n public actual override fun resumeWith(result: Result<T>) {\n val cur = this.result\n when {\n cur === UNDECIDED -> {\n this.result = result.value\n }\n cur === COROUTINE_SUSPENDED -> {\n this.result = RESUMED\n delegate.resumeWith(result)\n }\n else -> throw IllegalStateException(\"Already resumed\")\n }\n }\n\n @PublishedApi\n internal actual fun getOrThrow(): Any? {\n if (result === UNDECIDED) {\n result = COROUTINE_SUSPENDED\n return COROUTINE_SUSPENDED\n }\n val result = this.result\n return when {\n result === RESUMED -> COROUTINE_SUSPENDED // already called continuation, indicate COROUTINE_SUSPENDED upstream\n result is Result.Failure -> throw result.exception\n else -> result // either COROUTINE_SUSPENDED or data\n }\n }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines.js.internal\n\nimport kotlin.coroutines.Continuation\nimport kotlin.coroutines.EmptyCoroutineContext\n\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal val EmptyContinuation = Continuation<Any?>(EmptyCoroutineContext)
{ result ->\n result.getOrThrow()\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Exposes the [Date API](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Date) to Kotlin.\n */\n@Suppress(\"NOT_DOCUMENTED\")\npublic external class Date() {\n public constructor(milliseconds: Number)\n\n public constructor(dateString: String)\n\n public constructor(year: Int, month: Int)\n\n public constructor(year: Int, month: Int, day: Int)\n\n public constructor(year: Int, month: Int, day: Int, hour: Int)\n\n public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int)\n\n public constructor(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int)\n\n public constructor(year: Int, month: Int, day: Int, hour: Int, minute:
Int, second: Int, millisecond: Number)\n\n public fun getDate(): Int\n\n public fun getDay(): Int\n\n public fun getFullYear(): Int\n\n public fun getHours(): Int\n\n public fun getMilliseconds(): Int\n\n public fun getMinutes(): Int\n\n public fun getMonth(): Int\n\n public fun getSeconds(): Int\n\n public fun getTime(): Double\n\n public fun getTimezoneOffset(): Int\n\n public fun getUTCDate(): Int\n\n public fun getUTCDay(): Int\n\n public fun getUTCFullYear(): Int\n\n public fun getUTCHours(): Int\n\n public fun getUTCMilliseconds(): Int\n\n public fun getUTCMinutes(): Int\n\n public fun getUTCMonth(): Int\n\n public fun getUTCSeconds(): Int\n\n public fun toDateString(): String\n\n public fun toISOString(): String\n\n public fun toJSON(): Json\n\n public fun toLocaleDateString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n\n public fun toLocaleDateString(locales:
String, options: LocaleOptions = definedExternally): String\n\n public fun toLocaleString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n\n public fun toLocaleString(locales: String, options: LocaleOptions = definedExternally): String\n\n public fun toLocaleTimeString(locales: Array<String> = definedExternally, options: LocaleOptions = definedExternally): String\n\n public fun toLocaleTimeString(locales: String, options: LocaleOptions = definedExternally): String\n\n public fun toTimeString(): String\n\n public fun toUTCString(): String\n\n public companion object {\n public fun now(): Double\n\n public fun parse(dateString: String): Double\n\n public fun UTC(year: Int, month: Int): Double\n\n public fun UTC(year: Int, month: Int, day: Int): Double\n\n public fun UTC(year: Int, month: Int, day: Int, hour: Int): Double\n\n public fun UTC(year: Int, month: Int, day: Int,
hour: Int, minute: Int): Double\n\n public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int): Double\n\n public fun UTC(year: Int, month: Int, day: Int, hour: Int, minute: Int, second: Int, millisecond:

Number): Double\n }\n\n public interface LocaleOptions {\n public var localeMatcher: String?\n\n public var timeZone: String?\n\n public var hour12: Boolean?\n\n public var formatMatcher: String?\n\n public var weekday: String?\n\n public var era: String?\n\n public var year: String?\n\n public var month: String?\n\n public var day: String?\n\n public var hour: String?\n\n public var minute: String?\n\n public var second: String?\n\n public var timeZoneName: String?\n }\n}\n\npublic inline fun dateLocaleOptions(init: Date.LocaleOptions.() -> Unit): Date.LocaleOptions {\n val result = js(\"new Object()\").unsafeCast<Date.LocaleOptions>()\n init(result)\n return result\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.*\n\n/**\n * Creates a new element with the specified [name].\n *\n * The element is initialized with the speicifed [init] function.\n */\npublic fun Document.createElement(name: String, init: Element.() -> Unit): Element = createElement(name).apply(init)\n\n/**\n * Appends a newly created element with the specified [name] to this element.\n *\n * The element is initialized with the speicifed [init] function.\n */\npublic fun Element.appendElement(name: String, init: Element.() -> Unit): Element =\n ownerDocument!!.createElement(name, init).also { appendChild(it) }\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.*\n\n/** Returns true if the element has the given CSS class style in its 'class' attribute */\nfun Element.hasClass(cssClass: String): Boolean = className.matches(\"\"\"(^|.*\\s+)$cssClass($|\\s+.*)\"\"\".toRegex())\n\n/**\n * Adds CSS class to element. Has no effect if all specified classes are already in class attribute of the element\n *\n * @return true if at least one class has been added\n */\nfun Element.addClass(vararg cssClasses: String): Boolean {\n val missingClasses = cssClasses.filterNot { hasClass(it) }\n if (missingClasses.isNotEmpty()) {\n val presentClasses = className.trim()\n className = buildString {\n append(presentClasses)\n if (!presentClasses.isEmpty()) {\n append(\" \")\n }\n missingClasses.joinTo(this, \" \")\n }\n return true\n }\n\n return false\n}\n\n/**\n * Removes all [cssClasses] from element. Has no effect if all specified classes are missing in class attribute of the element\n *\n * @return true if at least one class has been removed\n */\nfun Element.removeClass(vararg cssClasses: String): Boolean {\n if (cssClasses.any { hasClass(it) }) {\n val toBeRemoved = cssClasses.toSet()\n className = className.trim().split(\"\\\\s+\".toRegex()).filter { it !in toBeRemoved }.joinToString(\" \")\n return true\n }\n\n return false\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\n/**\n * Converts the string into a regular expression [Regex] with the default options.\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(): Regex = Regex(this)\n\n/**\n * Converts the string into a regular expression [Regex] with the specified single [option].\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(option: RegexOption): Regex = Regex(this, option)\n\n/**\n * Converts the string into a regular expression [Regex] with the specified set of [options].\n */\n@kotlin.internal.InlineOnly\npublic inline fun String.toRegex(options: Set<RegexOption>): Regex = Regex(this, options)\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\n/**\n * Builds new string by populating newly created [StringBuilder] using provided [builderAction]\n * and then converting it to [String].\n */\n@kotlin.internal.InlineOnly\npublic inline fun buildString(builderAction:

StringBuilder.() -> Unit): String =\n StringBuilder().apply(builderAction).toString()\n\n/**\n * Builds new string by populating newly created [StringBuilder] initialized with the given [capacity]\n * using provided [builderAction] and then converting it to [String].\n */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun buildString(capacity: Int, builderAction: StringBuilder.() -> Unit): String =\n StringBuilder(capacity).apply(builderAction).toString()\n\n/**\n * Appends all arguments to the given [Appendable].\n */\npublic fun <T : Appendable> T.append(vararg value: CharSequence?): T {\n for (item in value)\n append(item)\n return this\n}\n\n/**\n * Appends all arguments to the given StringBuilder.\n */\npublic fun StringBuilder.append(vararg value: String?): StringBuilder {\n for (item in value)\n append(item)\n return this\n}\n\n/**\n * Appends all arguments to the given StringBuilder.\n */\npublic fun StringBuilder.append(vararg
value: Any?): StringBuilder {\n for (item in value)\n append(item)\n return this\n}\n\n\ninternal fun <T> Appendable.appendElement(element: T, transform: ((T) -> CharSequence)?) {\n when {\n transform != null -> append(transform(element))\n element is CharSequence? -> append(element)\n element is Char -> append(element)\n else -> append(element.toString())\n }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.*\n\n/**\n * Gets a value indicating whether this node is a TEXT_NODE or a CDATA_SECTION_NODE.\n */\npublic val Node.isText: Boolean\n get() = nodeType == Node.TEXT_NODE || nodeType == Node.CDATA_SECTION_NODE\n\n/**\n * Gets a value indicating whether this node is an [Element].\n */\npublic val Node.isElement:
Boolean\n get() = nodeType == Node.ELEMENT_NODE\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage org.w3c.dom.events\n\npublic fun EventListener(handler: (Event) -> Unit): EventListener = EventListenerHandler(handler)\n\nprivate class EventListenerHandler(private val handler: (Event) -> Unit) : EventListener {\n public override fun handleEvent(event: Event) {\n handler(event)\n }\n\n public override fun toString(): String = \"EventListenerHandler($handler)\"\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage org.w3c.dom\n\npublic external interface ItemArrayLike<out T> {\n val length: Int\n fun item(index:
Int): T?\n}\n\n/**\n * Returns the view of this `ItemArrayLike<T>` collection as `List<T>`\n */\npublic fun <T> ItemArrayLike<T>.asList(): List<T> = object : AbstractList<T>() {\n override val size: Int get() = this@asList.length\n\n override fun get(index: Int): T = when (index) {\n in 0..lastIndex -> this@asList.item(index).unsafeCast<T>()\n else -> throw IndexOutOfBoundsException(\"index $index is not in range [0..$lastIndex]\")\n }\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.dom\n\nimport org.w3c.dom.*\n\n/** Removes all the children from this node. */\npublic fun Node.clear() {\n while (hasChildNodes()) {\n removeChild(firstChild!!)\n }\n}\n\n/**\n * Creates text node and append it to the element.\n *\n * @return this element\n */\nfun Element.appendText(text:
String): Element {\n appendChild(ownerDocument!!.createTextNode(text))\n return this\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Reinterprets this value as a value of the [dynamic type](/docs/reference/dynamic-type.html).\n */\n@kotlin.internal.InlineOnly\npublic inline fun Any?.asDynamic(): dynamic = this\n\n/**\n * Reinterprets this value as a value of the specified type [T] without any actual type checking.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <T> Any?.unsafeCast(): @kotlin.internal.NoInfer T = this.asDynamic()\n\n/**\n * Reinterprets this `dynamic` value as a value of the specified type [T] without any actual

type checking.\n */\n@kotlin.internal.DynamicExtension\n@JsName(\"unsafeCastDynamic\")\n@kotlin.internal.InlineOnly\npublic inline fun <T> dynamic.unsafeCast(): @kotlin.internal.NoInfer T = this\n\n/**\n * Allows to iterate this `dynamic` object in the following cases:\n * - when it has an `iterator` function,\n * - when it is an array\n * - when it is an instance of [kotlin.collections.Iterable]\n */\n@kotlin.internal.DynamicExtension\npublic operator fun dynamic.iterator(): Iterator<dynamic> {\n   val r: Any? = this\n\n   return when {\n   this[\"iterator\"] != null ->\n   this[\"iterator\"]()\n   isArrayish(r) ->\n   r.unsafeCast<Array<*>>().iterator()\n\n   else ->\n   (r as Iterable<*>).iterator()\n   }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the module\n\n@JsName(\"throwNPE\")\ninternal fun throwNPE(message: String) {\n   throw NullPointerException(message)\n}\n\n@JsName(\"throwCCE\")\ninternal fun throwCCE() {\n   throw ClassCastException(\"Illegal cast\")\n}\n\n@JsName(\"throwISE\")\ninternal fun throwISE(message: String) {\n   throw IllegalStateException(message)\n}\n\n@JsName(\"throwUPAE\")\ninternal fun throwUPAE(propertyName: String) {\n   throw UninitializedPropertyAccessException(\"lateinit property ${propertyName} has not been initialized\")\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n// NOTE: Do not author your exceptions as they are written in this file, instead use this template:\n/*\npublic open class MyException : Exception {\n   constructor() : super()\n   constructor(message: String?) : super(message)\n   constructor(message: String?, cause: Throwable?) : super(message, cause)\n   constructor(cause: Throwable?) : super(cause)\n}\n*/\n\n\n// TODO: remove workarounds for KT-22053 from direct Throwable inheritors\n// TODO: remove primary constructors, make all secondary KT-22055\n\n@Suppress(\"USELESS_ELVIS_RIGHT_IS_NULL\")\npublic actual open class Error actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\n   actual constructor() : this(null, null) {\n   Error::class.js.asDynamic().call(this, null, null)\n   }\n\n   actual constructor(message: String?) : this(message, null) {\n   Error::class.js.asDynamic().call(this, message, null)\n   }\n\n   actual constructor(cause: Throwable?) : this(undefined, cause) {\n   Error::class.js.asDynamic().call(this, undefined, cause)\n   }\n}\n\n@Suppress(\"USELESS_ELVIS_RIGHT_IS_NULL\")\npublic actual open class Exception actual constructor(message: String?, cause: Throwable?) : Throwable(message, cause ?: null) {\n   actual constructor() : this(null, null) {\n   Exception::class.js.asDynamic().call(this, null, null)\n   }\n\n   actual constructor(message: String?) : this(message, null) {\n   Exception::class.js.asDynamic().call(this, message, null)\n   }\n\n   actual constructor(cause: Throwable?) : this(undefined, cause) {\n   Exception::class.js.asDynamic().call(this, undefined, cause)\n   }\n}\n\npublic actual open class RuntimeException actual constructor(message: String?, cause: Throwable?) : Exception(message, cause) {\n   actual constructor() : this(null, null)\n   actual constructor(message: String?) : this(message, null)\n   actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\npublic actual open class IllegalArgumentException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n   actual constructor() : this(null, null)\n   actual constructor(message: String?) : this(message, null)\n   actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\npublic actual open class IllegalStateException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n   actual constructor() : this(null, null)\n   actual constructor(message: String?) : this(message, null)\n   actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\npublic actual open class IndexOutOfBoundsException actual constructor(message: String?) : RuntimeException(message) {\n   actual constructor() : this(null)\n}\n\npublic actual open class ConcurrentModificationException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n   actual constructor() : this(null, null)\n   actual constructor(message: String?) : this(message, null)\n   actual constructor(cause:

Throwable?) : this(undefined, cause)\n}\n\npublic actual open class UnsupportedOperationException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n   actual constructor() : this(null, null)\n   actual
constructor(message: String?) : this(message, null)\n   actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\n\npublic actual open class NumberFormatException actual constructor(message: String?) : IllegalArgumentException(message) {\n   actual constructor() : this(null)\n}\n\n\npublic actual open class NullPointerException actual constructor(message: String?) : RuntimeException(message) {\n   actual constructor() : this(null)\n}\n\npublic actual open class ClassCastException actual constructor(message: String?) : RuntimeException(message) {\n   actual constructor() : this(null)\n}\n\npublic actual open class AssertionError private constructor(message: String?, cause: Throwable?) : Error(message, cause) {\n   actual constructor() : this(null)\n   constructor(message: String?) : this(message, null)\n   actual constructor(message: Any?) : this(message.toString(), message as? Throwable)\n}\n\npublic actual open class NoSuchElementException actual constructor(message:
String?) : RuntimeException(message) {\n   actual constructor() : this(null)\n}\n\n@SinceKotlin(\"1.3\")\npublic actual open class ArithmeticException actual constructor(message: String?) : RuntimeException(message) {\n   actual constructor() : this(null)\n}\n\npublic actual open class NoWhenBranchMatchedException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n   actual constructor() : this(null, null)\n   actual constructor(message: String?) : this(message, null)\n   actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n\npublic actual open class UninitializedPropertyAccessException actual constructor(message: String?, cause: Throwable?) : RuntimeException(message, cause) {\n   actual constructor() : this(null, null)\n   actual constructor(message: String?) : this(message, null)\n   actual constructor(cause: Throwable?) : this(undefined, cause)\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\n/**\n * Groups elements from the [Grouping] source by key and counts elements in each group.\n *\n * @return a [Map] associating the key of each group with the count of element in the group.\n */\n@SinceKotlin(\"1.1\")\npublic actual fun <T, K> Grouping<T, K>.eachCount(): Map<K, Int> =\n   fold(0) { acc, _ -> acc + 1 }\n\n/*\n/**\n * Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group.\n *\n * @return a [Map] associating the key of each group with the count of element in the group.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K> Grouping<T, K>.eachSumOf(valueSelector: (T) -> Int): Map<K, Int> =\n   fold(0) { acc, e -> acc + valueSelector(e) }\n*/","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmName(\"GroupingKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage kotlin.collections\n\n/**\n * Represents a source of elements with a [keyOf] function, which can be applied to each element to get its key.\n *\n * A [Grouping] structure serves as an intermediate step in group-and-fold operations:\n * they group elements by their keys and then fold each group with some aggregating operation.\n *\n * It is created by attaching `keySelector: (T) -> K` function to a source of elements.\n * To get an instance of [Grouping] use one of `groupingBy` extension functions:\n * - [Iterable.groupingBy]\n * - [Sequence.groupingBy]\n * - [Array.groupingBy]\n * - [CharSequence.groupingBy]\n *\n * For the list of group-and-fold operations available, see the [extension functions](#extension-functions) for `Grouping`.\n */\n@SinceKotlin(\"1.1\")\npublic
interface Grouping<T, out K> {\n   /** Returns an [Iterator] over the elements of the source of this grouping. */\n   fun sourceIterator(): Iterator<T>\n   /** Extracts the key of an [element]. */\n   fun keyOf(element: T): K\n}\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\n *\n * The key for each element is provided by the [Grouping.keyOf] function.\n *\n * @param operation function is invoked on each element with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group, can be `null`

if it's the first `element` encountered in the group;\n * - `element`: the element from the source being aggregated;\n * - `first`: indicates whether it's the first `element` encountered
in the group.\n *\n * @return a [Map] associating the key of each group with the result of aggregation of the group elements.\n * @sample samples.collections.Grouping.aggregateByRadix\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, R> Grouping<T, K>.aggregate(\n   operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\n): Map<K, R> {\n   return aggregateTo(mutableMapOf<K, R>(), operation)\n}\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in the given [destination] map.\n *\n * The key for each element is provided by the [Grouping.keyOf] function.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the
group, can be `null` if it's the first `element` encountered in the group;\n * - `element`: the element from the source being aggregated;\n * - `first`: indicates whether it's the first `element` encountered in the group.\n *\n * If the [destination] map already has a value corresponding to some key,\n * then the elements being aggregated for that key are never considered as `first`.\n *\n * @return the [destination] map associating the key of each group with the result of aggregation of the group elements.\n * @sample samples.collections.Grouping.aggregateByRadixTo\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.aggregateTo(\n   destination: M,\n   operation: (key: K, accumulator: R?, element: T, first: Boolean) -> R\n): M {\n   for (e in this.sourceIterator()) {\n   val key = keyOf(e)\n   val accumulator = destination[key]\n   destination[key] = operation(key, accumulator, e, accumulator == null && !destination.containsKey(key))\n   }\n   return destination\n}\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\n * An initial value of accumulator is provided by [initialValueSelector] function.\n *\n * @param initialValueSelector a function that provides an initial value of accumulator for each group.\n * It's invoked with parameters:\n * - `key`: the key of the group;\n * - `element`: the first element being encountered in that group.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n *\n * @return a [Map] associating the key of each group with the result
of accumulating the group elements.\n * @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValue\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, R> Grouping<T, K>.fold(\n   initialValueSelector: (key: K, element: T) -> R,\n   operation: (key: K, accumulator: R, element: T) -> R\n): Map<K, R> =\n   @Suppress(\"UNCHECKED_CAST\")\n   aggregate { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of accumulator is provided by [initialValueSelector] function.\n *\n * @param initialValueSelector a function that provides an initial value of accumulator for each group.\n * It's invoked with parameters:\n * - `key`: the key of the
group;\n * - `element`: the first element being encountered in that group.\n *\n * If the [destination] map already has a value corresponding to some key, that value is used as an initial value of\n * the accumulator for that group and the [initialValueSelector] function is not called for that group.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n *\n * @return the [destination] map associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.foldByEvenLengthWithComputedInitialValueTo\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n   destination: M,\n

initialValueSelector: (key: K, element: T) -> R,\n operation:
(key: K, accumulator: R, element: T) -> R\n): M =\n @Suppress(\"UNCHECKED_CAST\")\n aggregateTo(destination) { key, acc, e, first -> operation(key, if (first) initialValueSelector(key, e) else acc as R, e) }\n\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments, and stores the results in a new map.\n * An initial value of accumulator is the same [initialValue] for each group.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n *\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.foldByEvenLengthWithConstantInitialValue\n */\n@SinceKotlin(\"1.1\")\npublic
inline fun <T, K, R> Grouping<T, K>.fold(\n initialValue: R,\n operation: (accumulator: R, element: T) -> R\n): Map<K, R> =\n @Suppress(\"UNCHECKED_CAST\")\n aggregate { _, acc, e, first -> operation(if (first) initialValue else acc as R, e) }\n\n/**\n * Groups elements from the [Grouping] source by key and applies [operation] to the elements of each group sequentially,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of accumulator is the same [initialValue] for each group.\n *\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial value of the accumulator for that group.\n *\n * @param operation a function that is invoked on each element with the following parameters:\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the
source being accumulated.\n *\n * @return the [destination] map associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.foldByEvenLengthWithConstantInitialValueTo\n */\n@SinceKotlin(\"1.1\")\npublic
inline fun <T, K, R, M : MutableMap<in K, R>> Grouping<T, K>.foldTo(\n destination: M,\n initialValue: R,\n operation: (accumulator: R, element: T) -> R\n): M =\n @Suppress(\"UNCHECKED_CAST\")\n aggregateTo(destination) { _, acc, e, first -> operation(if (first) initialValue else acc as R, e) }\n\n\n/**\n * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group\n * sequentially starting from the second element of the group,\n * passing the previously accumulated value and the current element as arguments,\n * and stores the results in a new map.\n * An initial value of accumulator is the first element of the group.\n *\n * @param operation a
function that is invoked on each subsequent element of the group with the following parameters:\n * - `key`: the key of the group this element belongs to;\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being accumulated.\n *\n * @return a [Map] associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.reduceByMaxVowels\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <S, T : S, K> Grouping<T, K>.reduce(\n operation: (key: K, accumulator: S, element: T) -> S\n): Map<K, S> =\n aggregate { key, acc, e, first ->\n @Suppress(\"UNCHECKED_CAST\")\n if (first) e else operation(key, acc as S, e)\n }\n\n/**\n * Groups elements from the [Grouping] source by key and applies the reducing [operation] to the elements of each group\n * sequentially starting from the second element of the group,\n * passing the previously accumulated value and
the current element as arguments,\n * and stores the results in the given [destination] map.\n * An initial value of accumulator is the first element of the group.\n *\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial value of the accumulator for that group and the first element of that group is also\n * subjected to the [operation].\n\n * @param operation a function that is invoked on each subsequent element of the group with the following parameters:\n * - `accumulator`: the current value of the accumulator of the group;\n * - `element`: the element from the source being folded;\n *\n * @return the [destination] map associating the key of each group with the result of accumulating the group elements.\n * @sample samples.collections.Grouping.reduceByMaxVowelsTo\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <S,

T : S, K, M : MutableMap<in K, S>> Grouping<T, K>.reduceTo(\n destination: M,\n operation: (key: K, accumulator: S, element: T) -> S\n): M =\n aggregateTo(destination) { key, acc, e, first ->\n @Suppress(\"UNCHECKED_CAST\")\n if (first) e else operation(key, acc as S, e)\n }\n\n\n/**\n * Groups elements from the [Grouping] source by key and counts elements in each group to the given [destination] map.\n *\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial value of the counter for that group.\n *\n * @return the [destination] map associating the key of each group with the count of elements in the group.\n *\n * @sample samples.collections.Grouping.groupingByEachCount\n */\n@SinceKotlin(\"1.1\")\npublic fun <T, K, M : MutableMap<in K, Int>> Grouping<T, K>.eachCountTo(destination: M): M =\n foldTo(destination, 0) { acc, _ -> acc + 1 }\n\n/*\n/**\n * Groups elements from the [Grouping] source by key and sums values provided by the [valueSelector] function for elements in each group\n * to the given [destination] map.\n *\n *\n * If the [destination] map already has a value corresponding to the key of some group,\n * that value is used as an initial value of the sum for that group.\n *\n * @return the [destination] map associating the key of each group with the sum of elements in the group.\n */\n@SinceKotlin(\"1.1\")\npublic inline fun <T, K, M : MutableMap<in K, Int>> Grouping<T, K>.eachSumOfTo(destination: M, valueSelector: (T) -> Int): M =\n foldTo(destination, 0) { acc, e -> acc + valueSelector(e)}\n*/\n\n\n/*\n// TODO: sum by long and by double overloads\n\npublic inline fun <T, K, M : MutableMap<in K, Long>> Grouping<T, K>.sumEachByLongTo(destination: M, valueSelector: (T) -> Long): M =\n foldTo(destination, 0L) { acc, e -> acc + valueSelector(e)}\n\npublic inline fun <T, K> Grouping<T, K>.sumEachByLong(valueSelector: (T) -> Long): Map<K, Long> =\n fold(0L) { acc, e -> acc + valueSelector(e)}\n\npublic inline fun <T, K, M : MutableMap<in K, Double>> Grouping<T, K>.sumEachByDoubleTo(destination: M, valueSelector: (T) -> Double): M =\n foldTo(destination, 0.0) { acc, e -> acc + valueSelector(e)}\n\npublic inline fun <T, K> Grouping<T, K>.sumEachByDouble(valueSelector: (T) -> Double): Map<K, Double> =\n fold(0.0) { acc, e -> acc + valueSelector(e)}\n*/\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Exposes the JavaScript [Math object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Math) to Kotlin.\n */\n@Deprecated(\"Use top-level functions from kotlin.math package instead.\", level = DeprecationLevel.WARNING)\npublic external object Math {\n @Deprecated(\"Use kotlin.math.PI instead.\", ReplaceWith(\"PI\", \"kotlin.math.PI\"), level = DeprecationLevel.ERROR)\n public val PI: Double\n @Deprecated(\"Use Random.nextDouble instead\", ReplaceWith(\"kotlin.random.Random.nextDouble()\", \"kotlin.random.Random\"), level = DeprecationLevel.WARNING)\n public fun random(): Double\n @Deprecated(\"Use kotlin.math.abs instead.\", ReplaceWith(\"abs(value)\", \"kotlin.math.abs\"), level = DeprecationLevel.ERROR)\n public fun abs(value: Double): Double\n @Deprecated(\"Use kotlin.math.acos instead.\", ReplaceWith(\"acos(value)\", \"kotlin.math.acos\"), level = DeprecationLevel.ERROR)\n public fun acos(value: Double): Double\n @Deprecated(\"Use kotlin.math.asin instead.\", ReplaceWith(\"asin(value)\", \"kotlin.math.asin\"), level = DeprecationLevel.ERROR)\n public fun asin(value: Double): Double\n @Deprecated(\"Use kotlin.math.atan instead.\", ReplaceWith(\"atan(value)\", \"kotlin.math.atan\"), level = DeprecationLevel.ERROR)\n public fun atan(value: Double): Double\n @Deprecated(\"Use kotlin.math.atan2 instead.\", ReplaceWith(\"atan2(y, x)\", \"kotlin.math.atan2\"), level = DeprecationLevel.ERROR)\n public fun atan2(y: Double, x: Double): Double\n @Deprecated(\"Use kotlin.math.cos instead.\", ReplaceWith(\"cos(value)\", \"kotlin.math.cos\"), level = DeprecationLevel.ERROR)\n public fun cos(value: Double): Double\n @Deprecated(\"Use kotlin.math.sin instead.\", ReplaceWith(\"sin(value)\", \"kotlin.math.sin\"), level = DeprecationLevel.ERROR)\n public fun sin(value: Double): Double\n @Deprecated(\"Use kotlin.math.exp instead.\", ReplaceWith(\"exp(value)\", \"kotlin.math.exp\"), level = DeprecationLevel.ERROR)\n public fun exp(value: Double): Double\n @Deprecated(\"Use maxOf or kotlin.math.max instead\", level = DeprecationLevel.ERROR)\n public fun

max(vararg values: Int): Int\n @Deprecated(\"Use maxOf or kotlin.math.max instead\", level = DeprecationLevel.ERROR)\n public fun max(vararg values: Float): Float\n @Deprecated(\"Use maxOf or kotlin.math.max instead\", level = DeprecationLevel.ERROR)\n public fun max(vararg values: Double): Double\n @Deprecated(\"Use minOf or kotlin.math.min instead\", level = DeprecationLevel.ERROR)\n public fun min(vararg values: Int): Int\n @Deprecated(\"Use minOf or kotlin.math.min instead\", level = DeprecationLevel.ERROR)\n public fun min(vararg values: Float): Float\n @Deprecated(\"Use minOf or kotlin.math.min instead\", level = DeprecationLevel.ERROR)\n public fun min(vararg values: Double): Double\n @Deprecated(\"Use kotlin.math.sqrt instead.\", ReplaceWith(\"sqrt(value)\", \"kotlin.math.sqrt\"), level = DeprecationLevel.ERROR)\n public fun sqrt(value: Double): Double\n @Deprecated(\"Use kotlin.math.tan instead.\", ReplaceWith(\"tan(value)\", \"kotlin.math.tan\"), level = DeprecationLevel.ERROR)\n public fun tan(value: Double): Double\n @Deprecated(\"Use kotlin.math.ln instead.\", ReplaceWith(\"ln(value)\", \"kotlin.math.ln\"), level = DeprecationLevel.ERROR)\n public fun log(value: Double): Double\n @Deprecated(\"Use kotlin.math.pow instead.\", ReplaceWith(\"base.pow(exp)\", \"kotlin.math.pow\"), level = DeprecationLevel.ERROR)\n public fun pow(base: Double, exp: Double): Double\n @Deprecated(\"Use kotlin.math.round instead.\", ReplaceWith(\"round(value)\", \"kotlin.math.round\"), level = DeprecationLevel.ERROR)\n public fun round(value: Number): Int\n @Deprecated(\"Use kotlin.math.floor instead.\", ReplaceWith(\"floor(value)\", \"kotlin.math.floor\"), level = DeprecationLevel.ERROR)\n public fun floor(value: Number): Int\n @Deprecated(\"Use kotlin.math.ceil instead.\", ReplaceWith(\"ceil(value)\", \"kotlin.math.ceil\"), level = DeprecationLevel.ERROR)\n public fun ceil(value: Number): Int\n\n @PublishedApi\n internal fun trunc(value: Number): Double\n @PublishedApi\n internal fun sign(value: Number): Double\n\n @PublishedApi\n internal fun sinh(value: Double): Double\n @PublishedApi\n internal fun cosh(value: Double): Double\n @PublishedApi\n internal fun tanh(value: Double): Double\n @PublishedApi\n internal fun asinh(value: Double): Double\n @PublishedApi\n internal fun acosh(value: Double): Double\n @PublishedApi\n internal fun atanh(value: Double): Double\n\n @PublishedApi\n internal fun hypot(x: Double, y: Double): Double\n\n @PublishedApi\n internal fun expm1(value: Double): Double\n\n @PublishedApi\n internal fun log10(value: Double): Double\n @PublishedApi\n internal fun log2(value: Double): Double\n @PublishedApi\n internal fun log1p(value: Double): Double\n\n @PublishedApi\n internal fun clz32(value: Int): Int\n}\n\n/**\n * Returns the smaller of two values.\n */\n@Suppress(\"DEPRECATION\")\n@Deprecated(\"Use minOf or kotlin.math.min instead\", ReplaceWith(\"minOf(a, b)\"), level = DeprecationLevel.ERROR)\npublic fun Math.min(a: Long, b: Long): Long = if (a <= b) a else b\n\n/**\n * Returns the greater of two values.\n */\n@Suppress(\"DEPRECATION\")\n@Deprecated(\"Use maxOf or kotlin.math.max instead\", ReplaceWith(\"maxOf(a, b)\"), level = DeprecationLevel.ERROR)\npublic fun Math.max(a: Long, b: Long): Long = if (a >= b) a else b\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * An interface for indexing access to a collection of key-value pairs, where type of key is [String] and type of value is [Any?][Any].\n */\npublic external interface Json {\n /**\n * Calls to the function will be translated to indexing operation (square brackets) on the receiver with [propertyName] as the argument.\n *\n * E.g. for next code:\n * ```kotlin\n * fun test(j: Json, p: String) = j[\"prop\"] + j.get(p)\n * ```\n *\n * will be generated:\n * ```js\n * function test(j, p) {\n * return j[\"prop\"]
+ j[p];\n * }\n * ```\n */\n operator fun get(propertyName: String): Any?\n\n /**\n * Calls of the function will be translated to an assignment of [value] to the receiver indexed (with square brackets/index operation) with [propertyName].\n *\n * E.g. for the following code:\n * ```kotlin\n * fun test(j: Json, p: String, newValue: Any) {\n * j[\"prop\"] = 1\n * j.set(p, newValue)\n * }\n * ```\n *\n * will be generated:\n * ```js\n * function test(j, p, newValue) {\n * j[\"prop\"] = 1;\n * j[p] = newValue;\n * }\n * }\n * ```\n */\n operator fun set(propertyName: String, value: Any?): Unit\n}\n\n/**\n * Returns a

simple JavaScript object (as [Json]) using provided key-value pairs as names and values of its properties.\n */\npublic fun json(vararg pairs: Pair<String, Any?>): Json {\n val res: dynamic = js(\"({})\")\n for ((name, value) in pairs) {\n res[name]
= value\n }\n return res\n}\n\n/**\n * Adds key-value pairs from [other] to [this].\n * Returns the original receiver.\n */\npublic fun Json.add(other: Json): Json {\n val keys: Array<String> = js(\"Object\").keys(other)\n for (key in keys) {\n if (other.asDynamic().hasOwnProperty(key)) {\n this[key] = other[key];\n }\n }\n return this\n}\n\n/**\n * Exposes the JavaScript [JSON object](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/JSON) to Kotlin.\n */\n@Suppress(\"NOT_DOCUMENTED\")\npublic external object JSON {\n public fun stringify(o: Any?): String\n public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)): String\n public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: Int): String\n public fun stringify(o: Any?, replacer: ((key: String, value: Any?) -> Any?)? = definedExternally, space: String): String\n public
fun stringify(o: Any?, replacer: Array<String>): String\n public fun stringify(o: Any?, replacer: Array<String>, space: Int): String\n public fun stringify(o: Any?, replacer: Array<String>, space: String): String\n\n public fun <T> parse(text: String): T\n public fun <T> parse(text: String, reviver: ((key: String, value: Any?) -> Any?)): T\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n@file:Suppress(\"DEPRECATION\", \"DEPRECATION_ERROR\")\npackage kotlin.math\n\n\nimport kotlin.internal.InlineOnly\nimport kotlin.js.Math as nativeMath\n\n\n// region ================ Double Math ==\n\n/** Computes the sine of the angle [x] given in radians.\n *\n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun
sin(x: Double): Double = nativeMath.sin(x)\n\n/** Computes the cosine of the angle [x] given in radians.\n *\n * Special cases:\n * - `cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun cos(x: Double): Double = nativeMath.cos(x)\n\n/** Computes the tangent of the angle [x] given in radians.\n *\n * Special cases:\n * - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun tan(x: Double): Double = nativeMath.tan(x)\n\n/**\n * Computes the arc sine of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n * - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun asin(x: Double): Double = nativeMath.asin(x)\n\n/**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from `0.0` to `PI` radians.\n *\n * Special cases:\n * -
`acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun acos(x: Double): Double = nativeMath.acos(x)\n\n/**\n * Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n * - `atan(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atan(x: Double): Double = nativeMath.atan(x)\n\n/**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle in the range from `-PI` to `PI` radians.\n *\n * Special cases:\n * - `atan2(0.0, 0.0)` is `0.0`\n * - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\n * - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\n * - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y <
0`\n * - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n * - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n * - `atan2(+Inf, x)` is `PI/2` for finite `x`y\n * - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atan2(y: Double, x: Double): Double = nativeMath.atan2(y, x)\n\n/**\n * Computes the hyperbolic sine of the value [x].\n *\n * Special cases:\n * - `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is `+Inf`\n * - `sinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sinh(x: Double): Double = nativeMath.sinh(x)\n\n/**\n * Computes the hyperbolic cosine of the value [x].\n *\n * Special cases:\n * -

`cosh(NaN)` is `NaN`\n * - `cosh(+Inf|-Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun cosh(x: Double): Double = nativeMath.cosh(x)\n\n/**\n * Computes
the hyperbolic tangent of the value [x].\n *\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `1.0`\n * - `tanh(-Inf)` is `-1.0`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun tanh(x: Double): Double = nativeMath.tanh(x)\n\n/**\n * Computes the inverse hyperbolic sine of the value [x].\n *\n * The returned value is `y` such that `sinh(y) == x`.\n *\n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * - `asinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun asinh(x: Double): Double = nativeMath.asinh(x)\n\n/**\n * Computes the inverse hyperbolic cosine of the value [x].\n *\n * The returned value is positive `y` such that `cosh(y) == x`.\n *\n * Special cases:\n * - `acosh(NaN)` is `NaN`\n * - `acosh(x)` is `NaN` when `x < 1`\n * - `acosh(+Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun acosh(x: Double): Double = nativeMath.acosh(x)\n\n/**\n
* Computes the inverse hyperbolic tangent of the value [x].\n *\n * The returned value is `y` such that `tanh(y) == x`.\n *\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\n * - `tanh(1.0)` is `+Inf`\n * - `tanh(-1.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atanh(x: Double): Double = nativeMath.atanh(x)\n\n/**\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n *\n * Special cases:\n * - returns `+Inf` if any of arguments is infinite\n * - returns `NaN` if any of arguments is `NaN` and the other is not infinite\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun hypot(x: Double, y: Double): Double = nativeMath.hypot(x, y)\n\n/**\n * Computes the positive square root of the value [x].\n *\n * Special cases:\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sqrt(x: Double):
Double = nativeMath.sqrt(x)\n\n/**\n * Computes Euler's number `e` raised to the power of the value [x].\n *\n * Special cases:\n * - `exp(NaN)` is `NaN`\n * - `exp(+Inf)` is `+Inf`\n * - `exp(-Inf)` is `0.0`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun exp(x: Double): Double = nativeMath.exp(x)\n\n/**\n * Computes `exp(x) - 1`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n * - `expm1(NaN)` is `NaN`\n * - `expm1(+Inf)` is `+Inf`\n * - `expm1(-Inf)` is `-1.0`\n *\n * @see [exp] function.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun expm1(x: Double): Double = nativeMath.expm1(x)\n\n/**\n * Computes the logarithm of the value [x] to the given [base].\n *\n * Special cases:\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n * - `log(+Inf, +Inf)` is `NaN`\n * - `log(+Inf, b)` is `+Inf`
for `b > 1` and `-Inf` for `b < 1`\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n *\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin(\"1.2\")\npublic actual fun log(x: Double, base: Double): Double {\n   if (base <= 0.0 || base == 1.0) return Double.NaN\n   return nativeMath.log(x) / nativeMath.log(base)\n}\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x].\n *\n * Special cases:\n * - `ln(NaN)` is `NaN`\n * - `ln(x)` is `NaN` when `x < 0.0`\n * - `ln(+Inf)` is `+Inf`\n * - `ln(0.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun ln(x: Double): Double = nativeMath.log(x)\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun log10(x: Double): Double = nativeMath.log10(x)\n\n/**\n * Computes the binary logarithm (base 2) of
the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun log2(x: Double): Double = nativeMath.log2(x)\n\n/**\n * Computes `ln(x + 1)`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n * - `ln1p(NaN)` is `NaN`\n * - `ln1p(x)` is `NaN` where `x < -1.0`\n * - `ln1p(-1.0)` is `-Inf`\n * - `ln1p(+Inf)` is `+Inf`\n *\n * @see [ln] function\n * @see [expm1] function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun ln1p(x: Double): Double = nativeMath.log1p(x)\n\n/**\n * Rounds the given value [x] to an integer towards positive infinity.\n\n * @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual

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inline fun ceil(x: Double): Double = nativeMath.ceil(x).unsafeCast<Double>() // TODO: Remove unsafe cast after removing public js.math\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n\n * @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n *   - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun floor(x: Double): Double = nativeMath.floor(x).unsafeCast<Double>()\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n *\n * @return the value [x] having its fractional part truncated.\n *\n * Special cases:\n *   - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun truncate(x: Double): Double = nativeMath.trunc(x)\n\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n *\n * Special cases:\n *   - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun round(x: Double): Double {\n    if (x % 0.5 != 0.0) {\n        return nativeMath.round(x).unsafeCast<Double>()\n    }\n    val floor = floor(x)\n    return if (floor % 2 == 0.0) floor else ceil(x)\n}\n\n/**\n * Returns the absolute value of the given value [x].\n *\n * Special cases:\n *   - `abs(NaN)` is `NaN`\n *\n * @see absoluteValue extension property for [Double]\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun abs(x: Double): Double = nativeMath.abs(x)\n\n/**\n * Returns the sign of the given value [x]:\n *   - `-1.0` if the value is negative,\n *   - zero if the value is zero,\n *   - `1.0` if the value is positive\n *\n * Special case:\n *   - `sign(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual
inline fun sign(x: Double): Double = nativeMath.sign(x)\n\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun min(a: Double, b: Double): Double = nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun max(a: Double, b: Double): Double = nativeMath.max(a, b)\n\n// extensions\n\n/**\n * Raises this value to the power [x].\n *\n * Special cases:\n *   - `b.pow(0.0)` is `1.0`\n *   - `b.pow(1.0) == b`\n *   - `b.pow(NaN)` is `NaN`\n *   - `NaN.pow(x)` is `NaN` for `x != 0.0`\n *   - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n *   - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Double.pow(x: Double): Double = nativeMath.pow(this, x)\n\n/**\n * Raises this value to the integer power [n].\n *\n * See the other overload of [pow] for details.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Double.pow(n: Int): Double = nativeMath.pow(this, n.toDouble())\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n *   - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Double.absoluteValue: Double get() = nativeMath.abs(this)\n\n/**\n * Returns the sign of this value:\n *   - `-1.0` if the value is negative,\n *   - zero if the value is zero,\n *   - `1.0` if the value is positive\n *\n * Special case:\n *   - `NaN.sign` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Double.sign: Double get() = nativeMath.sign(this)\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Double.withSign(sign: Int): Double = this.withSign(sign.toDouble())\n\n/**\n * Returns the ulp (unit in the last place) of this value.\n *\n * An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.\n *\n * Special Cases:\n *   - `NaN.ulp` is `NaN`\n *   - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\n *   - `0.0.ulp` is `Double.MIN_VALUE`\n */\n@SinceKotlin(\"1.2\")\npublic actual val Double.ulp: Double get() = when {\n    this < 0 -> (-this).ulp\n    this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n    this == Double.MAX_VALUE -> this - this.nextDown()\n    else -> this.nextUp() - this\n}\n\n/**\n * Returns the [Double] value nearest to this value in direction of positive infinity.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.nextUp(): Double = when {\n    this.isNaN() || this == Double.POSITIVE_INFINITY -> this\n    this == 0.0 -> Double.MIN_VALUE\n    else -> Double.fromBits(this.toRawBits() + if (this > 0) 1 else -1)\n}\n\n/**\n * Returns the [Double]
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value nearest to this value in direction of negative infinity.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.nextDown(): Double = when {\n   this.isNaN() || this == Double.NEGATIVE_INFINITY -> this\n   this == 0.0 -> -Double.MIN_VALUE\n   else -> Double.fromBits(this.toRawBits() + if (this > 0) -1 else 1)\n}\n\n\n/**\n * Returns the [Double] value nearest to this value in direction from this value towards the value [to].\n *\n * Special cases:\n *   - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\n *   - `x.nextTowards(x) == x`\n *\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.nextTowards(to: Double): Double = when {\n   this.isNaN() || to.isNaN() -> Double.NaN\n   to == this -> to\n   to > this -> this.nextUp()\n   else /* to < this */ -> this.nextDown()\n}\n\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Int].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *   - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n *   - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.roundToInt(): Int = when {\n   isNaN() -> throw IllegalArgumentException(\"Cannot round NaN value.\")\n   this > Int.MAX_VALUE -> Int.MAX_VALUE\n   this < Int.MIN_VALUE -> Int.MIN_VALUE\n   else -> nativeMath.round(this).unsafeCast<Double>().toInt()\n}\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n *   - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n *   - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Double.roundToLong(): Long = when {\n   isNaN() -> throw IllegalArgumentException(\"Cannot round NaN value.\")\n   this > Long.MAX_VALUE -> Long.MAX_VALUE\n   this < Long.MIN_VALUE -> Long.MIN_VALUE\n   else -> nativeMath.round(this).unsafeCast<Double>().toLong()\n}\n\n// endregion\n\n\n\n// region ================ Float Math ======================================\n\n/** Computes the sine of the angle [x] given in radians.\n *\n * Special cases:\n *   - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sin(x: Float): Float = nativeMath.sin(x.toDouble()).toFloat()\n\n/** Computes the cosine of the angle [x] given in radians.\n *\n * Special cases:\n *   - `cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun cos(x: Float): Float = nativeMath.cos(x.toDouble()).toFloat()\n\n/** Computes the tangent of the angle [x] given in radians.\n *\n * Special cases:\n *   - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun tan(x: Float): Float = nativeMath.tan(x.toDouble()).toFloat()\n\n/**\n * Computes the arc sine of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *   - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun asin(x: Float): Float = nativeMath.asin(x.toDouble()).toFloat()\n\n/**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from `0.0` to `PI` radians.\n *\n * Special cases:\n *   - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun acos(x: Float): Float = nativeMath.acos(x.toDouble()).toFloat()\n\n/**\n * Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n *   - `atan(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atan(x: Float): Float = nativeMath.atan(x.toDouble()).toFloat()\n\n/**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle in the range from `-PI` to `PI` radians.\n *\n * Special cases:\n *   - `atan2(0.0, 0.0)` is `0.0`\n *   - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\n *   - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\n *   - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\n *   - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n *   - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n *   - `atan2(+Inf, x)` is `PI/2` for finite `x`y\n *   - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n *   - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atan2(y: Float, x: Float): Float = nativeMath.atan2(y.toDouble(),

x.toDouble()).toFloat()\n\n/**\n * Computes the hyperbolic sine of the value [x].\n *\n * Special cases:\n * - `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is `+Inf`\n * - `sinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sinh(x: Float): Float = nativeMath.sinh(x.toDouble()).toFloat()\n\n/**\n * Computes the hyperbolic cosine of the value [x].\n *\n * Special cases:\n * - `cosh(NaN)` is `NaN`\n * - `cosh(+Inf|-Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun cosh(x: Float): Float = nativeMath.cosh(x.toDouble()).toFloat()\n\n/**\n * Computes the hyperbolic tangent of the value [x].\n *\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `1.0`\n * - `tanh(-Inf)` is `-1.0`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun tanh(x: Float): Float = nativeMath.tanh(x.toDouble()).toFloat()\n\n/**\n * Computes the inverse hyperbolic sine of the value [x].\n *\n * The returned value is `y` such that `sinh(y) == x`.\n *\n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * - `asinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun asinh(x: Float): Float = nativeMath.asinh(x.toDouble()).toFloat()\n\n/**\n * Computes the inverse hyperbolic cosine of the value [x].\n *\n * The returned value is positive `y` such that `cosh(y) == x`.\n *\n * Special cases:\n * - `acosh(NaN)` is `NaN`\n * - `acosh(x)` is `NaN` when `x < 1`\n * - `acosh(+Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun acosh(x: Float): Float = nativeMath.acosh(x.toDouble()).toFloat()\n\n/**\n * Computes the inverse hyperbolic tangent of the value [x].\n *\n * The returned value is `y` such that `tanh(y) == x`.\n *\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\n * - `tanh(1.0)` is `+Inf`\n * - `tanh(-1.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun atanh(x: Float): Float = nativeMath.atanh(x.toDouble()).toFloat()\n\n/**\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n *\n * Special cases:\n * - returns `+Inf` if any of arguments is infinite\n * - returns `NaN` if any of arguments is `NaN` and the other is not infinite\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun hypot(x: Float, y: Float): Float = nativeMath.hypot(x.toDouble(), y.toDouble()).toFloat()\n\n/**\n * Computes the positive square root of the value [x].\n *\n * Special cases:\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sqrt(x: Float): Float = nativeMath.sqrt(x.toDouble()).toFloat()\n\n/**\n * Computes Euler's number `e` raised to the power of the value [x].\n *\n * Special cases:\n * - `exp(NaN)` is `NaN`\n * - `exp(+Inf)` is `+Inf`\n * - `exp(-Inf)` is `0.0`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun exp(x: Float): Float = nativeMath.exp(x.toDouble()).toFloat()\n\n/**\n * Computes `exp(x) - 1`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n * - `expm1(NaN)` is `NaN`\n * - `expm1(+Inf)` is `+Inf`\n * - `expm1(-Inf)` is `-1.0`\n *\n * @see [exp] function.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun expm1(x: Float): Float = nativeMath.expm1(x.toDouble()).toFloat()\n\n/**\n * Computes the logarithm of the value [x] to the given [base].\n *\n * Special cases:\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n * - `log(+Inf, +Inf)` is `NaN`\n * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n *\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun log(x: Float, base: Float): Float = log(x.toDouble(), base.toDouble()).toFloat()\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x].\n *\n * Special cases:\n * - `ln(NaN)` is `NaN`\n * - `ln(x)` is `NaN` when `x < 0.0`\n * - `ln(+Inf)` is `+Inf`\n * - `ln(0.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun ln(x: Float): Float = nativeMath.log(x.toDouble()).toFloat()\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun log10(x: Float): Float = nativeMath.log10(x.toDouble()).toFloat()\n\n/**\n * Computes the binary logarithm (base 2) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun log2(x: Float): Float = nativeMath.log2(x.toDouble()).toFloat()\n\n/**\n

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 * Computes `ln(a + 1)`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n *   - `ln1p(NaN)` is `NaN`\n *   - `ln1p(x)` is `NaN` where `x < -1.0`\n *   - `ln1p(-1.0)` is `-Inf`\n *   - `ln1p(+Inf)` is `+Inf`\n *\n * @see [ln] function\n * @see [expm1] function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun ln1p(x: Float): Float = nativeMath.log1p(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] to an integer towards positive infinity.\n\n * @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n *   - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun ceil(x: Float): Float = nativeMath.ceil(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n\n
 * @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n *   - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun floor(x: Float): Float = nativeMath.floor(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n *\n * @return the value [x] having its fractional part truncated.\n *\n * Special cases:\n *   - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun truncate(x: Float): Float = truncate(x.toDouble()).toFloat()\n\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n *\n * Special cases:\n *   - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic
 actual inline fun round(x: Float): Float = round(x.toDouble()).toFloat()\n\n\n/**\n * Returns the absolute value of the given value [x].\n *\n * Special cases:\n *   - `abs(NaN)` is `NaN`\n *\n * @see absoluteValue extension property for [Float]\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun abs(x: Float): Float = nativeMath.abs(x.toDouble()).toFloat()\n\n/**\n * Returns the sign of the given value [x]:\n *   - `-1.0` if the value is negative,\n *   - zero if the value is zero,\n *   - `1.0` if the value is positive\n *\n * Special case:\n *   - `sign(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun sign(x: Float): Float = nativeMath.sign(x.toDouble()).toFloat()\n\n\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun min(a: Float, b: Float): Float = nativeMath.min(a, b)\n\n/**\n
 * Returns the greater of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun max(a: Float, b: Float): Float = nativeMath.max(a, b)\n\n// extensions\n\n\n/**\n * Raises this value to the power [x].\n *\n * Special cases:\n *   - `b.pow(0.0)` is `1.0`\n *   - `b.pow(1.0) == b`\n *   - `b.pow(NaN)` is `NaN`\n *   - `NaN.pow(x)` is `NaN` for `x != 0.0`\n *   - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n *   - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Float.pow(x: Float): Float = nativeMath.pow(this.toDouble(), x.toDouble()).toFloat()\n\n/**\n * Raises this value to the integer power [n].\n *\n * See the other overload of [pow] for details.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Float.pow(n: Int): Float = nativeMath.pow(this.toDouble(), n.toDouble()).toFloat()\n\n/**\n * Returns the
 absolute value of this value.\n *\n * Special cases:\n *   - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Float.absoluteValue: Float get() = nativeMath.abs(this.toDouble()).toFloat()\n\n/**\n * Returns the sign of this value:\n *   - `-1.0` if the value is negative,\n *   - zero if the value is zero,\n *   - `1.0` if the value is positive\n *\n * Special case:\n *   - `NaN.sign` is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Float.sign: Float get() = nativeMath.sign(this.toDouble()).toFloat()\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *\n * If [sign] is `NaN` the sign of the result is undefined.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Float.withSign(sign: Float): Float = this.toDouble().withSign(sign.toDouble()).toFloat()\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic
```

actual inline fun Float.withSign(sign: Int): Float = this.toDouble().withSign(sign.toDouble()).toFloat()\n\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to [Int].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun Float.roundToInt(): Int = toDouble().roundToInt()\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to [Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic
actual inline fun Float.roundToLong(): Long = toDouble().roundToLong()\n\n\n// endregion\n\n// region ================ Integer Math ==\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n * - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue extension property for [Int]\n */\n// TODO: remove manual 'or' when KT-19290 is fixed\n@SinceKotlin(\"1.2\")\npublic actual fun abs(n: Int): Int = if (n < 0) (-n or 0) else n\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun min(a: Int, b: Int): Int = nativeMath.min(a, b)\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline fun max(a: Int, b: Int): Int = nativeMath.max(a, b)\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * - `Int.MIN_VALUE.absoluteValue`
is `Int.MIN_VALUE` due to an overflow\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Int.absoluteValue: Int get() = abs(this)\n\n/**\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value is positive\n */\n@SinceKotlin(\"1.2\")\npublic actual val Int.sign: Int get() = when {\n   this < 0 -> -1\n   this > 0 -> 1\n   else -> 0\n}\n\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n * - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue extension property for [Long]\n */\n@SinceKotlin(\"1.2\")\npublic actual fun abs(n: Long): Long = if (n < 0) -n else n\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.2\")\n@Suppress(\"NOTHING_TO_INLINE\")\npublic actual inline fun min(a: Long, b: Long): Long = if (a <= b) a else b\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.2\")\n@Suppress(\"NOTHING_TO_INLINE\")\npublic
actual inline fun max(a: Long, b: Long): Long = if (a >= b) a else b\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\npublic actual inline val Long.absoluteValue: Long get() = abs(this)\n\n/**\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value is positive\n */\n@SinceKotlin(\"1.2\")\npublic actual val Long.sign: Int get() = when {\n   this < 0 -> -1\n   this > 0 -> 1\n   else -> 0\n}\n\n\n\n// endregion\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Returns `true` if the specified
number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n */\npublic actual fun Double.isNaN(): Boolean = this != this\n\n/**\n * Returns `true` if the specified number is a\n * Not-a-Number (NaN) value, `false` otherwise.\n */\npublic actual fun Float.isNaN(): Boolean = this != this\n\n/**\n * Returns `true` if this value is infinitely large in magnitude.\n */\npublic actual fun Double.isInfinite(): Boolean = this == Double.POSITIVE_INFINITY || this == Double.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if this value is infinitely large in magnitude.\n */\npublic actual fun Float.isInfinite(): Boolean = this == Float.POSITIVE_INFINITY || this == Float.NEGATIVE_INFINITY\n\n/**\n * Returns `true` if the argument is a finite floating-point value; returns `false` otherwise (for `NaN` and infinity arguments).\n */\npublic actual fun Double.isFinite(): Boolean =

```
!isInfinite() && !isNaN()\n\n/**\n * Returns `true` if the argument is a finite floating-point value; returns `false`
 otherwise (for `NaN` and infinity arguments).\n */\npublic actual fun Float.isFinite(): Boolean = !isInfinite() &&
!isNaN()\n\n/**\n * Counts the number of set bits in the binary representation of this [Int] number.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic actual fun Int.countOneBits(): Int {\n    // Hacker's
Delight 5-1 algorithm\n    var v = this\n    v = (v and 0x55555555) + (v.ushr(1) and 0x55555555)\n    v = (v and
0x33333333) + (v.ushr(2) and 0x33333333)\n    v = (v and 0x0F0F0F0F) + (v.ushr(4) and 0x0F0F0F0F)\n    v = (v
and 0x00FF00FF) + (v.ushr(8) and 0x00FF00FF)\n    v = (v and 0x0000FFFF) + (v.ushr(16))\n    return
v\n}\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of
this [Int] number.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@Suppress(\"DEPRECATION\")\n@kotlin.internal.InlineO
nly\npublic actual inline fun Int.countLeadingZeroBits(): Int = kotlin.js.Math.clz32(this)\n\n/**\n * Counts
 the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic actual fun Int.countTrailingZeroBits(): Int =\n    //
Hacker's Delight 5-4 algorithm for expressing countTrailingZeroBits with countLeadingZeroBits\n    Int.SIZE_BITS
- (this or -this).inv().countLeadingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of
the most significant set bit of this [Int] number,\n * or zero, if this number is zero.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic actual fun Int.takeHighestOneBit(): Int =\n    if (this
== 0) 0 else 1.shl(Int.SIZE_BITS - 1 - countLeadingZeroBits())\n\n/**\n * Returns a number having a single bit set
in the position of the least significant set bit of this [Int] number,\n * or zero, if this number is zero.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic actual fun Int.takeLowestOneBit(): Int =\n    //
 Hacker's Delight 2-1 algorithm for isolating rightmost 1-bit\n    this and -this\n\n/**\n * Rotates the binary
representation of this [Int] number left by the specified [bitCount] number of bits.\n * The most significant bits
pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the
number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-
n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or
more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic actual fun Int.rotateLeft(bitCount: Int): Int =\n
shl(bitCount) or ushr(Int.SIZE_BITS - bitCount)\n\n/**\n * Rotates the binary representation of this [Int] number
right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter
the
 number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the
same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n *
Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n *
`number.rotateRight(n) == number.rotateRight(n % 32)`\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic actual fun Int.rotateRight(bitCount: Int): Int =\n
shl(Int.SIZE_BITS - bitCount) or ushr(bitCount)\n\n/**\n * Counts the number of set bits in the binary
representation of this [Long] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic actual fun
Long.countOneBits(): Int =\n    high.countOneBits() + low.countOneBits()\n\n/**\n * Counts the number of
consecutive most significant bits that are zero in the binary representation of this [Long] number.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic actual fun Long.countLeadingZeroBits():
 Int =\n    when (val high = this.high) {\n        0 -> Int.SIZE_BITS + low.countLeadingZeroBits()\n        else ->
high.countLeadingZeroBits()\n    }\n\n/**\n * Counts the number of consecutive least significant bits that are zero in
the binary representation of this [Long] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic
actual fun Long.countTrailingZeroBits(): Int =\n    when (val low = this.low) {\n        0 -> Int.SIZE_BITS +
high.countTrailingZeroBits()\n        else -> low.countTrailingZeroBits()\n    }\n\n/**\n * Returns a number having a
single bit set in the position of the most significant set bit of this [Long] number,\n * or zero, if this number is
zero.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic actual fun Long.takeHighestOneBit(): Long
=\n    when (val high = this.high) {\n        0 -> Long(low.takeHighestOneBit(), 0)\n        else -> Long(0,
```

high.takeHighestOneBit())\n   }\n\n/**\n * Returns a number having a single bit set
 in the position of the least significant set bit of this [Long] number,\n * or zero, if this number is zero.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic actual fun Long.takeLowestOneBit(): Long =\n
when (val low = this.low) {\n   0 -> Long(0, high.takeLowestOneBit())\n   else ->
Long(low.takeLowestOneBit(), 0)\n   }\n\n/**\n * Rotates the binary representation of this [Long] number left by
the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the
number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the
same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n *
Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n *
`number.rotateLeft(n) == number.rotateLeft(n % 64)`\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic actual fun Long.rotateLeft(bitCount:
 Int): Long {\n   if ((bitCount and 31) != 0) {\n   val low = this.low\n   val high = this.high\n   val newLow
= low.shl(bitCount) or high.ushr(-bitCount)\n   val newHigh = high.shl(bitCount) or low.ushr(-bitCount)\n
return if ((bitCount and 32) == 0) Long(newLow, newHigh) else Long(newHigh, newLow)\n   } else {\n   return
if ((bitCount and 32) == 0) this else Long(high, low)\n   }\n}\n\n\n/**\n * Rotates the binary representation of this
[Long] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the
right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a
negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) ==
number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more
generally\n * `number.rotateRight(n) == number.rotateRight(n
 % 64)`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic actual inline
fun Long.rotateRight(bitCount: Int): Long = rotateLeft(-bitCount)\n","/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license
that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\nimport
kotlin.internal.LowPriorityInOverloadResolution\n\n/**\n * Exposes the JavaScript [Promise
object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/Promise) to Kotlin.\n
*/\n@Suppress(\"NOT_DOCUMENTED\")\npublic open external class Promise<out T>(executor: (resolve: (T) ->
Unit, reject: (Throwable) -> Unit) -> Unit) {\n   @LowPriorityInOverloadResolution\n   public open fun <S>
then(onFulfilled: ((T) -> S)?): Promise<S>\n\n   @LowPriorityInOverloadResolution\n   public open fun <S>
then(onFulfilled: ((T) -> S)?, onRejected: ((Throwable)
 -> S)?): Promise<S>\n\n   public open fun <S> catch(onRejected: (Throwable) -> S): Promise<S>\n\n
companion object {\n   public fun <S> all(promise: Array<out Promise<S>>): Promise<Array<out S>>\n\n
public fun <S> race(promise: Array<out Promise<S>>): Promise<S>\n\n   public fun reject(e: Throwable):
Promise<Nothing>\n\n   public fun <S> resolve(e: S): Promise<S>\n   public fun <S> resolve(e:
Promise<S>): Promise<S>\n   }\n}\n\n// It's workaround for KT-19672 since we can fix it properly until KT-11265
isn't fixed.\ninline fun <T, S> Promise<Promise<T>>.then(\n   noinline onFulfilled: ((T) -> S)?\n): Promise<S> {\n
 return this.unsafeCast<Promise<T>>().then(onFulfilled)\n}\n\ninline fun <T, S> Promise<Promise<T>>.then(\n
noinline onFulfilled: ((T) -> S)?,\n   noinline onRejected: ((Throwable) -> S)?\n): Promise<S> {\n   return
this.unsafeCast<Promise<T>>().then(onFulfilled, onRejected)\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o.
and Kotlin
 Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\nimport kotlin.math.pow\n\ninternal actual
fun defaultPlatformRandom(): Random =\n   Random(js(\"(Math.random() * Math.pow(2, 32)) |
0\").unsafeCast<Int>())\n\n\nprivate val INV_2_26: Double = 2.0.pow(-26)\nprivate val INV_2_53: Double =
2.0.pow(-53)\ninternal actual fun doubleFromParts(hi26: Int, low27: Int): Double =\n   hi26 * INV_2_26 + low27 *
INV_2_53","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use
of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.js\n\nimport getKClass\nimport kotlin.reflect.KClass\nimport

kotlin.reflect.js.internal.KClassImpl\n\n/**\n * Represents the constructor of a class. Instances of `JsClass` can be passed to JavaScript APIs that expect a
constructor reference.\n */\nexternal interface JsClass<T : Any> {\n /**\n * Returns the unqualified name of the class represented by this instance.\n */\n val name: String\n}\n\n@Deprecated(\"Use class literal and extension property `js` instead.\", replaceWith = ReplaceWith(\"T::class.js\"), level = DeprecationLevel.ERROR)\nexternal fun <T : Any> jsClass(): JsClass<T>\n\n@Deprecated(\"Use class literal and extension property `js` instead.\", replaceWith = ReplaceWith(\"this::class.js\"), level = DeprecationLevel.ERROR)\nval <T : Any> T.jsClass: JsClass<T>\n get() = when (jsTypeOf(this)) {\n \"string\" -> js(\"String\")\n \"number\" -> js(\"Number\")\n \"boolean\" -> js(\"Boolean\")\n else -> js(\"Object\").getPrototypeOf(this).constructor\n }\n\n/**\n * Obtains a constructor reference for the given `KClass`.\n */\nval <T : Any> KClass<T>.js: JsClass<T>\n get() = (this as KClassImpl<T>).jClass\n\n/**\n * Obtains a `KClass` instance for
the given constructor reference.\n */\nval <T : Any> JsClass<T>.kotlin: KClass<T>\n get() = getKClass(this)\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal abstract class KClassImpl<T : Any>(\n internal open val jClass: JsClass<T>\n) : KClass<T> {\n override val annotations: List<Annotation>\n get() = TODO()\n override val constructors: Collection<KFunction<T>>\n get() = TODO()\n override val isAbstract: Boolean\n get() = TODO()\n override val isCompanion: Boolean\n get() = TODO()\n override val isData: Boolean\n get() = TODO()\n override val isFinal: Boolean\n get() = TODO()\n override val isInner: Boolean\n get() = TODO()\n override val isOpen: Boolean\n get()
= TODO()\n override val isSealed: Boolean\n get() = TODO()\n override val members: Collection<KCallable<*>>\n get() = TODO()\n override val nestedClasses: Collection<KClass<*>>\n get() = TODO()\n override val objectInstance: T?\n get() = TODO()\n override val qualifiedName: String?\n get() = TODO()\n override val supertypes: List<KType>\n get() = TODO()\n override val typeParameters: List<KTypeParameter>\n get() = TODO()\n override val sealedSubclasses: List<KClass<out T>>\n get() = TODO()\n override val visibility: KVisibility?\n get() = TODO()\n\n override fun equals(other: Any?): Boolean {\n return other is KClassImpl<*> && jClass == other.jClass\n }\n\n // TODO: use FQN\n override fun hashCode(): Int = simpleName?.hashCode() ?: 0\n\n override fun toString(): String {\n // TODO: use FQN\n return \"class $simpleName\"\n }\n}\n\ninternal class SimpleKClassImpl<T
: Any>(jClass: JsClass<T>) : KClassImpl<T>(jClass) {\n override val simpleName: String? = jClass.asDynamic().`$metadata$`?.simpleName.unsafeCast<String?>()\n\n override fun isInstance(value: Any?): Boolean {\n return jsIsType(value, jClass)\n }\n}\n\ninternal class PrimitiveKClassImpl<T : Any>(\n jClass: JsClass<T>,\n private val givenSimpleName: String,\n private val isInstanceFunction: (Any?) -> Boolean\n) : KClassImpl<T>(jClass) {\n override fun equals(other: Any?): Boolean {\n if (other !is PrimitiveKClassImpl<*>) return false\n return super.equals(other) && givenSimpleName == other.givenSimpleName\n }\n\n override val simpleName: String? get() = givenSimpleName\n\n override fun isInstance(value: Any?): Boolean {\n return isInstanceFunction(value)\n }\n}\n\ninternal object NothingKClassImpl : KClassImpl<Nothing>(js(\"Object\")) {\n override val simpleName: String = \"Nothing\"\n\n override fun isInstance(value:
Any?): Boolean = false\n\n override val jClass: JsClass<Nothing>\n get() = throw UnsupportedOperationException(\"There's no native JS class for Nothing type\")\n\n override fun equals(other: Any?): Boolean = other === this\n\n override fun hashCode(): Int = 0\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the module\n\n// TODO: Remove once JsReflectionAPICallChecker supports more reflection types\n@file:Suppress(\"Unsupported\")\n\nimport kotlin.reflect.*\nimport

kotlin.reflect.js.internal.*\n\n@JsName(\"createKType\")\ninternal fun createKType(\n classifier: KClassifier,\n arguments: Array<KTypeProjection>,\n isMarkedNullable: Boolean\n) =\n KTypeImpl(classifier, arguments.asList(), isMarkedNullable)\n\n@JsName(\"createDynamicKType\")\ninternal fun createDynamicKType(): KType = DynamicKType\n\n@JsName(\"markKTypeNullable\")\ninternal fun markKTypeNullable(kType: KType) = KTypeImpl(kType.classifier!!, kType.arguments, true)\n\n@JsName(\"createKTypeParameter\")\ninternal fun createKTypeParameter(\n name: String,\n upperBounds: Array<KType>,\n variance: String\n): KTypeParameter {\n val kVariance = when (variance) {\n \"in\" -> KVariance.IN\n \"out\" -> KVariance.OUT\n else -> KVariance.INVARIANT\n }\n\n return KTypeParameterImpl(name, upperBounds.asList(), kVariance, false)\n}\n\n@JsName(\"getStarKTypeProjection\")\ninternal fun getStarKTypeProjection(): KTypeProjection =\n KTypeProjection.STAR\n\n@JsName(\"createCovariantKTypeProjection\")\ninternal fun createCovariantKTypeProjection(type: KType): KTypeProjection =\n KTypeProjection.covariant(type)\n\n@JsName(\"createInvariantKTypeProjection\")\ninternal fun createInvariantKTypeProjection(type: KType): KTypeProjection\n =\n KTypeProjection.invariant(type)\n\n@JsName(\"createContravariantKTypeProjection\")\ninternal fun createContravariantKTypeProjection(type: KType): KTypeProjection =\n KTypeProjection.contravariant(type)\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal class KTypeImpl(\n override val classifier: KClassifier,\n override val arguments: List<KTypeProjection>,\n override val isMarkedNullable: Boolean\n) : KType {\n override val annotations: List<Annotation>\n get() = emptyList()\n\n override fun equals(other: Any?): Boolean =\n other is KTypeImpl &&\n classifier == other.classifier && arguments == other.arguments && isMarkedNullable == other.isMarkedNullable\n\n override fun hashCode(): Int\n =\n (classifier.hashCode() * 31 + arguments.hashCode()) * 31 + isMarkedNullable.hashCode()\n\n override fun toString(): String {\n val kClass = (classifier as? KClass<*>)\n val classifierName = when {\n kClass == null -> classifier.toString()\n kClass.simpleName != null -> kClass.simpleName\n else -> \"(non-denotable type)\"\n }\n\n val args =\n if (arguments.isEmpty()) \"\"\n else arguments.joinToString(\", \", \"<\", \">\") { it.asString() }\n val nullable = if (isMarkedNullable) \"?\" else \"\"\n\n return classifierName + args + nullable\n }\n\n // TODO: this should be the implementation of KTypeProjection.toString, see KT-30071\n private fun KTypeProjection.asString(): String {\n if (variance == null) return \"*\"\n return variance.prefixString() + type.toString()\n }\n}\n\ninternal object DynamicKType : KType {\n override val classifier: KClassifier?\n = null\n override val arguments: List<KTypeProjection> = emptyList()\n override val isMarkedNullable: Boolean = false\n override val annotations: List<Annotation> = emptyList()\n override fun toString(): String = \"dynamic\"\n}\n\ninternal fun KVariance.prefixString() =\n when (this) {\n KVariance.INVARIANT -> \"\"\n KVariance.IN -> \"in \"\n KVariance.OUT -> \"out \"\n }\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.reflect.*\n\ninternal data class KTypeParameterImpl(\n override val name: String,\n override val upperBounds: List<KType>,\n override val variance: KVariance,\n override val isReified: Boolean\n) : KTypeParameter {\n override fun toString(): String = name\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect.js.internal\n\nimport kotlin.js.JsClass\n\n@JsName(\"PrimitiveClasses\")\ninternal object PrimitiveClasses {\n @JsName(\"anyClass\")\n val anyClass = PrimitiveKClassImpl(js(\"Object\").unsafeCast<JsClass<Any>>(), \"Any\", { it is Any })\n\n @JsName(\"numberClass\")\n val numberClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Number>>(), \"Number\", { it is Number })\n\n

@JsName(\"nothingClass\")\n   val nothingClass = NothingKClassImpl\n\n   @JsName(\"booleanClass\")\n   val booleanClass = PrimitiveKClassImpl(js(\"Boolean\").unsafeCast<JsClass<Boolean>>(), \"Boolean\", { it is Boolean })\n\n   @JsName(\"byteClass\")\n   val byteClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Byte>>(), \"Byte\", { it is Byte })\n\n   @JsName(\"shortClass\")\n   val shortClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Short>>(), \"Short\", { it is Short })\n\n   @JsName(\"intClass\")\n   val intClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Int>>(), \"Int\", { it is Int })\n\n   @JsName(\"floatClass\")\n   val floatClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Float>>(), \"Float\", { it is Float })\n\n   @JsName(\"doubleClass\")\n   val doubleClass = PrimitiveKClassImpl(js(\"Number\").unsafeCast<JsClass<Double>>(), \"Double\", { it is Double })\n\n   @JsName(\"arrayClass\")\n   val arrayClass = PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<Array<*>>>(), \"Array\", { it is Array<*> })\n\n   @JsName(\"stringClass\")\n   val stringClass = PrimitiveKClassImpl(js(\"String\").unsafeCast<JsClass<String>>(), \"String\", { it is String })\n\n   @JsName(\"throwableClass\")\n   val throwableClass = PrimitiveKClassImpl(js(\"Error\").unsafeCast<JsClass<Throwable>>(), \"Throwable\", { it is Throwable })\n\n   @JsName(\"booleanArrayClass\")\n   val booleanArrayClass = PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<BooleanArray>>(), \"BooleanArray\", { it is BooleanArray })\n\n   @JsName(\"charArrayClass\")\n   val charArrayClass = PrimitiveKClassImpl(js(\"Uint16Array\").unsafeCast<JsClass<CharArray>>(), \"CharArray\", { it is CharArray })\n\n   @JsName(\"byteArrayClass\")\n   val byteArrayClass = PrimitiveKClassImpl(js(\"Int8Array\").unsafeCast<JsClass<ByteArray>>(), \"ByteArray\", { it is ByteArray })\n\n   @JsName(\"shortArrayClass\")\n   val shortArrayClass = PrimitiveKClassImpl(js(\"Int16Array\").unsafeCast<JsClass<ShortArray>>(), \"ShortArray\", { it is ShortArray })\n\n   @JsName(\"intArrayClass\")\n   val intArrayClass = PrimitiveKClassImpl(js(\"Int32Array\").unsafeCast<JsClass<IntArray>>(), \"IntArray\", { it is IntArray })\n\n   @JsName(\"longArrayClass\")\n   val longArrayClass = PrimitiveKClassImpl(js(\"Array\").unsafeCast<JsClass<LongArray>>(), \"LongArray\", { it is LongArray })\n\n   @JsName(\"floatArrayClass\")\n   val floatArrayClass = PrimitiveKClassImpl(js(\"Float32Array\").unsafeCast<JsClass<FloatArray>>(), \"FloatArray\", { it is FloatArray })\n\n   @JsName(\"doubleArrayClass\")\n   val doubleArrayClass = PrimitiveKClassImpl(js(\"Float64Array\").unsafeCast<JsClass<DoubleArray>>(), \"DoubleArray\", { it is DoubleArray })\n\n   @JsName(\"functionClass\")\n   fun functionClass(arity: Int): KClassImpl<Any> {\n   return functionClasses.get(arity) ?: run {\n   val result = PrimitiveKClassImpl(js(\"Function\").unsafeCast<JsClass<Any>>(), \"Function$arity\",\n   { jsTypeOf(it) === \"function\" && it.asDynamic().length === arity })\n   functionClasses.asDynamic()[arity] = result\n   result\n   }\n   }\n}\n\nprivate val functionClasses = arrayOfNulls<KClassImpl<Any>>(0)","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// a package is omitted to get declarations directly under the module\n\nimport kotlin.reflect.*\nimport kotlin.reflect.js.internal.*\n\n@JsName(\"getKClass\")\ninternal fun <T : Any> getKClass(jClass: JsClass<T>): KClass<T> = getOrCreateKClass(jClass)\n\n@JsName(\"getKClassFromExpression\")\ninternal fun <T : Any> getKClassFromExpression(e: T): KClass<T> =\n   when (jsTypeOf(e)) {\n   \"string\" -> PrimitiveClasses.stringClass\n   \"number\" -> if (jsBitwiseOr(e, 0).asDynamic() === e) PrimitiveClasses.intClass else PrimitiveClasses.doubleClass\n   \"boolean\" -> PrimitiveClasses.booleanClass\n   \"function\" -> PrimitiveClasses.functionClass(e.asDynamic().length)\n   else -> {\n   when {\n   e is BooleanArray -> PrimitiveClasses.booleanArrayClass\n   e is CharArray ->

PrimitiveClasses.charArrayClass\n
e is ByteArray -> PrimitiveClasses.byteArrayClass\n e is ShortArray ->
PrimitiveClasses.shortArrayClass\n e is IntArray -> PrimitiveClasses.intArrayClass\n e is
LongArray -> PrimitiveClasses.longArrayClass\n e is FloatArray -> PrimitiveClasses.floatArrayClass\n
e is DoubleArray -> PrimitiveClasses.doubleArrayClass\n e is KClass<*> -> KClass::class\n
e is Array<*> -> PrimitiveClasses.arrayClass\n else -> {\n val constructor =
js(\"Object\").getPrototypeOf(e).constructor\n when {\n constructor === js(\"Object\") ->
PrimitiveClasses.anyClass\n constructor === js(\"Error\") -> PrimitiveClasses.throwableClass\n
else -> {\n val jsClass: JsClass<T> = constructor\n
getOrCreateKClass(jsClass)\n
}\n }\n }\n }\n }\n }.unsafeCast<KClass<T>>()\n\nprivate fun <T :
Any> getOrCreateKClass(jClass: JsClass<T>): KClass<T> {\n if (jClass === js(\"String\")) return
PrimitiveClasses.stringClass.unsafeCast<KClass<T>>()\n\n val metadata = jClass.asDynamic().`$metadata$`\n\n
return if (metadata != null) {\n if (metadata.`$kClass$` == null) {\n val kClass =
SimpleKClassImpl(jClass)\n metadata.`$kClass$` = kClass\n kClass\n } else {\n
metadata.`$kClass$`\n }\n } else {\n SimpleKClassImpl(jClass)\n }\n}\n","/*\n * Copyright 2010-2018
JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the
Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.js\n\n/**\n * Exposes
the JavaScript [RegExp
object](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/RegExp)
to Kotlin.\n */\n@Suppress(\"NOT_DOCUMENTED\")\npublic external class RegExp(pattern: String, flags:
String? = definedExternally) {\n\n public fun test(str: String): Boolean\n\n public fun exec(str: String):
RegExpMatch?\n\n public override fun toString(): String\n\n /**\n * The lastIndex is a read/write integer
property of regular expressions that specifies the index at which to start the next match.\n */\n public var
lastIndex: Int\n\n public val global: Boolean\n public val ignoreCase: Boolean\n public val multiline:
Boolean\n}\n\n/**\n * Resets the regular expression so that subsequent [RegExp.test] and [RegExp.exec] calls will
match starting with the beginning of the input string.\n */\npublic fun RegExp.reset() {\n lastIndex = 0\n}\n\n//
TODO: Inherit from array or introduce asArray() extension\n/**\n * Represents the return value of
[RegExp.exec].\n */\n@Suppress(\"NOT_DOCUMENTED\")\npublic
external interface RegExpMatch {\n public val index: Int\n public val input: String\n public val length:
Int\n}\n\n/**\n * Returns the entire text matched by [RegExp.exec] if the [index] parameter is 0, or the text matched
by the capturing parenthesis\n * at the given index.\n */\npublic inline operator fun RegExpMatch.get(index: Int):
String? = asDynamic()[index]\n\n/**\n * Converts the result of [RegExp.exec] to an array where the first element
contains the entire matched text and each subsequent\n * element is the text matched by each capturing
parenthesis.\n */\npublic inline fun RegExpMatch.asArray(): Array<out String?> = unsafeCast<Array<out
String?>>()\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.sequences\n\ninternal actual class ConstrainedOnceSequence<T> actual constructor(sequence:
Sequence<T>) : Sequence<T> {\n private var sequenceRef: Sequence<T>? = sequence\n\n actual override fun
iterator(): Iterator<T> {\n val sequence = sequenceRef ?: throw IllegalStateException(\"This sequence can be
consumed only once.\")\n sequenceRef = null\n return sequence.iterator()\n }\n}\n","/*\n * Copyright
2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n//
actually \\s is enough to match all whitespace, but \\xA0 added because of different regexp behavior of Rhino used
in Selenium tests\npublic actual fun Char.isWhitespace(): Boolean =
toString().matches(\"[\\\\s\\\\xA0]\")\n\n@kotlin.internal.InlineOnly\npublic actual inline fun Char.toLowerCase():
Char =
js(\"String.fromCharCode\")(toInt()).toLowerCase().charCodeAt(0).unsafeCast<Int>().toChar()\n\n@kotlin.internal.

InlineOnly\npublic
 actual inline fun Char.toUpperCase(): Char =
js(\"String.fromCharCode\")(toInt()).toUpperCase().charCodeAt(0).unsafeCast<Int>().toChar()\n\n/**\n * Returns `true` if this character is a Unicode high-surrogate code unit (also known as leading-surrogate code unit).\n */\npublic actual fun Char.isHighSurrogate(): Boolean = this in Char.MIN_HIGH_SURROGATE..Char.MAX_HIGH_SURROGATE\n\n/**\n * Returns `true` if this character is a Unicode low-surrogate code unit (also known as trailing-surrogate code unit).\n */\npublic actual fun Char.isLowSurrogate(): Boolean = this in Char.MIN_LOW_SURROGATE..Char.MAX_LOW_SURROGATE\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n\n/**\n * Returns `true` if the contents of this string is equal to the word \"true\", ignoring case, and `false` otherwise.\n */\npublic
 actual fun String.toBoolean(): Boolean = toLowerCase() == \"true\"\n\n/**\n * Parses the string as a signed [Byte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\npublic actual fun String.toByte(): Byte = toByteOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a signed [Byte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun String.toByte(radix: Int): Byte = toByteOrNull(radix) ?: numberFormatError(this)\n\n\n/**\n * Parses the string as a [Short] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\npublic actual fun String.toShort(): Short = toShortOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as
 a [Short] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun String.toShort(radix: Int): Short = toShortOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as an [Int] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\npublic actual fun String.toInt(): Int = toIntOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as an [Int] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun String.toInt(radix: Int): Int = toIntOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [Long]
 number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\npublic actual fun String.toLong(): Long = toLongOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [Long] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\npublic actual fun String.toLong(radix: Int): Long = toLongOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [Double] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\npublic actual fun String.toDouble(): Double = (+(this.asDynamic())).unsafeCast<Double>().also {\n   if (it.isNaN() && !this.isNaN() || it == 0.0 && this.isBlank())\n   numberFormatError(this)\n}\n\n/**\n * Parses the string as a [Float]
 number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toFloat(): Float = toDouble().unsafeCast<Float>()\n\n/**\n * Parses the string as a [Double] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\npublic actual fun String.toDoubleOrNull(): Double? = (+(this.asDynamic())).unsafeCast<Double>().takeIf {\n   !(it.isNaN() && !this.isNaN() || it == 0.0 && this.isBlank())\n}\n\n/**\n * Parses the string as a [Float] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@kotlin.internal.InlineOnly\npublic actual inline fun String.toFloatOrNull(): Float? = toDoubleOrNull().unsafeCast<Float?>()\n\n/**\n * Returns a string representation

of this [Byte] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Byte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of this [Short] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.2\")\n@kotlin.internal.InlineOnly\npublic actual inline fun Short.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of this [Int] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.2\")\npublic actual fun Int.toString(radix: Int): String = asDynamic().toString(checkRadix(radix))\n\nprivate fun String.isNaN(): Boolean = when (this.toLowerCase()) {\n \"nan\", \"+nan\", \"-nan\" -> true\n else -> false\n}\n\n/**\n * Checks whether the given [radix] is valid radix for string to number and number to string conversion.\n */\n@PublishedApi\ninternal actual fun checkRadix(radix: Int): Int {\n if (radix !in 2..36) {\n throw IllegalArgumentException(\"radix $radix was not in valid range 2..36\")\n }\n return radix\n}\n\ninternal actual fun digitOf(char: Char, radix: Int): Int = when {\n char >= '0' && char <= '9' -> char - '0'\n char >= 'A' && char <= 'Z' -> char - 'A' + 10\n char >= 'a' && char <= 'z' -> char - 'a' + 10\n else -> -1\n}.let { if (it >= radix) -1 else it }\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport kotlin.js.RegExp\n\n/**\n * Provides enumeration values to use to set regular expression options.\n */\npublic actual enum class RegexOption(val value: String) {\n /** Enables case-insensitive matching. */\n IGNORE_CASE(\"i\"),\n /** Enables multiline mode.\n *\n * In multiline mode the expressions `^` and `$` match just after or just before,\n * respectively, a line terminator or the end of the input sequence. */\n MULTILINE(\"m\")\n}\n\n\n/**\n * Represents the results from a single capturing group within a [MatchResult] of [Regex].\n *\n * @param value The value of captured group.\n */\npublic actual data class MatchGroup(actual val value: String)\n\n\n/**\n * Represents a compiled regular expression.\n * Provides functions to match strings in text with a pattern, replace the found occurrences and split text around matches.\n *\n * For pattern syntax reference see [MDN RegExp](https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/RegExp#Special_characters_meaning_in_regular_expressions)\n * and [http://www.w3schools.com/jsref/jsref_obj_regexp.asp](https://www.w3schools.com/jsref/jsref_obj_regexp.asp).\n *\n * @constructor Creates a regular expression from the specified [pattern] string and the specified set of [options].\n */\npublic actual class Regex actual constructor(pattern: String, options: Set<RegexOption>) {\n\n /** Creates a regular expression from the specified [pattern] string and the specified single [option]. */\n public actual constructor(pattern: String, option: RegexOption) : this(pattern, setOf(option))\n\n /** Creates a regular expression from the specified [pattern] string and the default options. */\n public actual constructor(pattern: String) : this(pattern, emptySet())\n\n\n /** The pattern string of this regular expression. */\n public actual val pattern: String = pattern\n /** The set of options that were used to create this regular expression. */\n public actual val options: Set<RegexOption> = options.toSet()\n private val nativePattern: RegExp = RegExp(pattern, options.map { it.value }.joinToString(separator = \"\") + \"g\")\n\n\n /** Indicates whether the regular expression matches the entire [input]. */\n public actual infix fun matches(input: CharSequence): Boolean {\n nativePattern.reset()\n val match = nativePattern.exec(input.toString())\n return match != null && match.index == 0 && nativePattern.lastIndex == input.length\n }\n\n /** Indicates whether the regular expression can find at least one match in the specified [input]. */\n public actual fun containsMatchIn(input: CharSequence): Boolean {\n nativePattern.reset()\n return nativePattern.test(input.toString())\n }\n\n /** Returns the first match of a regular expression in the [input], beginning at the specified [startIndex].\n *\n * @param startIndex An index to start search with, by default 0. Must be not less than zero and not greater than `input.length()`\n * @return An instance of [MatchResult] if match was found or `null` otherwise.\n */\n @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n

```
    public actual fun find(input: CharSequence, startIndex: Int = 0): MatchResult? =
nativePattern.findNext(input.toString(), startIndex)\n\n    /**\n     * Returns a sequence of all occurrences of a
regular expression within the [input] string, beginning at the specified [startIndex].\n     *\n     * @sample
samples.text.Regexps.findAll\n     */\n
@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n    public actual fun findAll(input:
CharSequence, startIndex: Int = 0): Sequence<MatchResult> =\n        generateSequence({ find(input, startIndex) },
{ match -> match.next() })\n\n    /**\n     * Attempts to match the entire [input] CharSequence against the pattern.\n
     *\n     * @return An instance of [MatchResult] if the entire input matches or `null` otherwise.\n     */\n    public
actual fun matchEntire(input: CharSequence): MatchResult? {\n        if (pattern.startsWith('^') &&
pattern.endsWith('$'))\n            return find(input)\n        else\n
            return Regex(\"^${pattern.trimStart('^').trimEnd('$')}$\", options).find(input)\n    }\n\n    /**\n     * Replaces
all occurrences of this regular expression in the specified [input] string with specified [replacement] expression.\n
*\n     * @param replacement A replacement expression that can include substitutions. See
[String.prototype.replace](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/String/replace) function docs for details.\n     */\n    public
actual fun replace(input: CharSequence, replacement: String): String = input.toString().nativeReplace(nativePattern,
replacement)\n\n    /**\n     * Replaces all occurrences of this regular expression in the specified [input] string with
the result of\n     * the given function [transform] that takes [MatchResult] and returns a string to be used as a\n     *
replacement for that match.\n     */\n    public actual inline fun replace(input: CharSequence, transform:
(MatchResult) -> CharSequence):
 String {\n        var match = find(input)\n        if (match == null) return input.toString()\n\n        var lastStart = 0\n
val length = input.length\n        val sb = StringBuilder(length)\n        do {\n            val foundMatch = match!!\n
sb.append(input, lastStart, foundMatch.range.start)\n            sb.append(transform(foundMatch))\n            lastStart =
foundMatch.range.endInclusive + 1\n            match = foundMatch.next()\n        } while (lastStart < length && match
!= null)\n\n        if (lastStart < length) {\n            sb.append(input, lastStart, length)\n        }\n\n        return
sb.toString()\n    }\n\n    /**\n     * Replaces the first occurrence of this regular expression in the specified [input]
string with specified [replacement] expression.\n     *\n     * @param replacement A replacement expression that can
include substitutions. See [String.prototype.replace](https://developer.mozilla.org/en-
US/docs/Web/JavaScript/Reference/Global_Objects/String/replace)
 function docs for details.\n     */\n    public actual fun replaceFirst(input: CharSequence, replacement: String):
String {\n        val nonGlobalOptions = options.map { it.value }.joinToString(separator = \"\")\n        return
input.toString().nativeReplace(RegExp(pattern, nonGlobalOptions), replacement)\n    }\n\n    /**\n     * Splits the
[input] CharSequence around matches of this regular expression.\n     *\n     * @param limit Non-negative value
specifying the maximum number of substrings the string can be split to.\n     * Zero by default means no limit is
set.\n     */\n    @Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\n    public actual fun
split(input: CharSequence, limit: Int = 0): List<String> {\n        require(limit >= 0) { \"Limit must be non-negative,
but was $limit\" }\n        val matches = findAll(input).let { if (limit == 0) it else it.take(limit - 1) }\n        val result =
mutableListOf<String>()\n        var lastStart = 0\n\n
        for (match in matches) {\n            result.add(input.subSequence(lastStart, match.range.start).toString())\n
lastStart = match.range.endInclusive + 1\n        }\n        result.add(input.subSequence(lastStart,
input.length).toString())\n        return result\n    }\n\n\n    /**\n     * Returns the string representation of this regular
expression, namely the [pattern] of this regular expression.\n     *\n     * Note that another regular expression
constructed from the same pattern string may have different [options]\n     * and may match strings differently.\n
*/\n    public override fun toString(): String = nativePattern.toString()\n\n    actual companion object {\n        /**\n
     * Returns a regular expression that matches the specified [literal] string literally.\n         * No characters of that
string will have special meaning when searching for an occurrence of the regular expression.\n         */\n        public
actual fun fromLiteral(literal: String):
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Regex = Regex(escape(literal))\n\n    /**\n     * Returns a regular expression pattern string that matches the specified [literal] string literally.\n     * No characters of that string will have special meaning when searching for an occurrence of the regular expression.\n     */\n    public actual fun escape(literal: String): String = literal.nativeReplace(patternEscape, \"\\\\$&\")\n\n    /**\n     * Returns a literal replacement expression for the specified [literal] string.\n     * No characters of that string will have special meaning when it is used as a replacement string in [Regex.replace] function.\n     */\n    public actual fun escapeReplacement(literal: String): String = literal.nativeReplace(replacementEscape, \"$$$$\")\n\n    private val patternEscape = RegExp(\"\"\"[-\\\\^$*+?.()|[\\]{}]\"\"\", \"g\")\n    private val replacementEscape = RegExp(\"\"\"\\$\"\"\", \"g\")\n}\n\n/** Creates a regular expression from
 the specified [pattern] string and the specified single [option].  */\n@Deprecated(\"Provided for binary compatibility\", level = DeprecationLevel.HIDDEN)\n@JsName(\"Regex_sb3q2\\$\")\npublic fun Regex_0(pattern: String, option: RegexOption): Regex = Regex(pattern, setOf(option))\n\n/** Creates a regular expression from the specified [pattern] string and the default options.  */\n@Deprecated(\"Provided for binary compatibility\", level = DeprecationLevel.HIDDEN)\n@JsName(\"Regex_61zpoe\\$\")\npublic fun Regex_1(pattern: String): Regex = Regex(pattern, emptySet())\n\n\n\n\nprivate fun RegExp.findNext(input: String, from: Int): MatchResult? {\n    this.lastIndex = from\n    val match = exec(input)\n    if (match == null) return null\n    val range = match.index..lastIndex - 1\n\n    return object : MatchResult {\n        override val range: IntRange = range\n        override val value: String\n            get() = match[0]!!\n\n        override val groups: MatchGroupCollection = object : MatchGroupCollection, AbstractCollection<MatchGroup?>() {\n            override val size: Int get() = match.length\n            override fun iterator(): Iterator<MatchGroup?> = indices.asSequence().map { this[it] }.iterator()\n            override fun get(index: Int): MatchGroup? = match[index]?.let { MatchGroup(it) }\n        }\n\n\n        private var groupValues_: List<String>? = null\n\n        override val groupValues: List<String>\n            get() {\n                if (groupValues_ == null) {\n                    groupValues_ = object : AbstractList<String>() {\n                        override val size: Int get() = match.length\n                        override fun get(index: Int): String = match[index] ?: \"\"\n                    }\n                }\n                return groupValues_!!\n            }\n\n        override fun next(): MatchResult? = this@findNext.findNext(input, if (range.isEmpty()) range.start + 1 else range.endInclusive + 1)\n    }\n}\n","/*\n * Copyright
 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\nimport kotlin.js.RegExp\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeIndexOf(ch: Char, fromIndex: Int): Int = nativeIndexOf(ch.toString(), fromIndex)\n\n@kotlin.internal.InlineOnly\ninternal actual inline fun String.nativeLastIndexOf(ch: Char, fromIndex: Int): Int = nativeLastIndexOf(ch.toString(), fromIndex)\n\n/**\n * Returns `true` if this string starts with the specified prefix.\n */\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun String.startsWith(prefix: String, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase)\n        return nativeStartsWith(prefix, 0)\n    else\n        return regionMatches(0, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if a substring of this string starting
 at the specified offset [startIndex] starts with the specified prefix.\n */\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun String.startsWith(prefix: String, startIndex: Int, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase)\n        return nativeStartsWith(prefix, startIndex)\n    else\n        return regionMatches(startIndex, prefix, 0, prefix.length, ignoreCase)\n}\n\n/**\n * Returns `true` if this string ends with the specified suffix.\n */\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun String.endsWith(suffix: String, ignoreCase: Boolean = false): Boolean {\n    if (!ignoreCase)\n        return nativeEndsWith(suffix)\n    else\n        return regionMatches(length - suffix.length, suffix, 0, suffix.length, ignoreCase)\n}\n\n\npublic fun String.matches(regex: String): Boolean {\n    val result = this.match(regex)\n    return result != null && result.size != 0\n}\n\npublic actual fun CharSequence.isBlank(): Boolean =
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 length == 0 || (if (this is String) this else
this.toString()).matches(\"^[\\\\s\\\\xA0]+$\")\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGU
MENTS\")\npublic actual fun String?.equals(other: String?, ignoreCase: Boolean = false): Boolean =\n    if (this ==
null)\n        other == null\n    else if (!ignoreCase)\n        this == other\n    else\n        other != null &&
this.toLowerCase() ==
other.toLowerCase()\n\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic
actual fun CharSequence.regionMatches(thisOffset: Int, other: CharSequence, otherOffset: Int, length: Int,
ignoreCase: Boolean = false): Boolean =\n    regionMatchesImpl(thisOffset, other, otherOffset, length,
ignoreCase)\n\n\n/**\n * Returns a copy of this string having its first letter uppercased, or the original string,\n * if
it's empty or already starts with an upper case letter.\n *\n * @sample samples.text.Strings.capitalize\n */\npublic
actual fun String.capitalize(): String {\n    return if (isNotEmpty())
 substring(0, 1).toUpperCase() + substring(1) else this\n}\n\n/**\n * Returns a copy of this string having its first
letter lowercased, or the original string,\n * if it's empty or already starts with a lower case letter.\n *\n * @sample
samples.text.Strings.decapitalize\n */\npublic actual fun String.decapitalize(): String {\n    return if (isNotEmpty())
substring(0, 1).toLowerCase() + substring(1) else this\n}\n\n/**\n * Returns a string containing this char sequence
repeated [n] times.\n * @throws [IllegalArgumentException] when n < 0.\n */\npublic actual fun
CharSequence.repeat(n: Int): String {\n    require(n >= 0) { \"Count 'n' must be non-negative, but was $n.\" }\n
return when (n) {\n        0 -> \"\"\n        1 -> this.toString()\n        else -> {\n            var result = \"\"\n            if
(!isEmpty()) {\n                var s = this.toString()\n                var count = n\n                while (true) {\n                    if
((count and 1) == 1) {\n
            result += s\n                    }\n                    count = count ushr 1\n                    if (count == 0) {\n
break\n                    }\n                    s += s\n                }\n            }\n            return result\n        }\n
}\n}\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual fun
String.replace(oldValue: String, newValue: String, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"gi\" else \"g\"),
Regex.escapeReplacement(newValue))\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENT
S\")\npublic actual fun String.replace(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"gi\" else \"g\"),
newChar.toString())\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENTS\")\npublic actual
fun String.replaceFirst(oldValue: String, newValue: String, ignoreCase: Boolean
 = false): String =\n    nativeReplace(RegExp(Regex.escape(oldValue), if (ignoreCase) \"i\" else \"\"),
Regex.escapeReplacement(newValue))\n\n@Suppress(\"ACTUAL_FUNCTION_WITH_DEFAULT_ARGUMENT
S\")\npublic actual fun String.replaceFirst(oldChar: Char, newChar: Char, ignoreCase: Boolean = false): String =\n
nativeReplace(RegExp(Regex.escape(oldChar.toString()), if (ignoreCase) \"i\" else \"\"),
newChar.toString())\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language
contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the
license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n\npublic actual interface Appendable {\n    public actual
fun append(csq: CharSequence?): Appendable\n    public actual fun append(csq: CharSequence?, start: Int, end: Int):
Appendable\n    public actual fun append(c: Char): Appendable\n}\n\npublic actual class StringBuilder(content:
String = \"\") : Appendable, CharSequence {\n    actual
 constructor(capacity: Int) : this() {}\n\n    actual constructor(content: CharSequence) : this(content.toString())
{}\n\n    actual constructor() : this(\"\")\n\n    private var string: String = content\n\n    actual override val length:
Int\n        get() = string.asDynamic().length\n\n    actual override fun get(index: Int): Char =\n
string.getOrElse(index) { throw IndexOutOfBoundsException(\"index: $index, length: $length}\") }\n\n    actual
override fun subSequence(startIndex: Int, endIndex: Int): CharSequence = string.substring(startIndex, endIndex)\n\n
  actual override fun append(c: Char): StringBuilder {\n        string += c\n        return this\n    }\n\n    actual override
fun append(csq: CharSequence?): StringBuilder {\n        string += csq.toString()\n        return this\n    }\n\n    actual
override fun append(csq: CharSequence?, start: Int, end: Int): StringBuilder {\n        string +=
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csq.toString().substring(start, end)\n        return this\n    }\n\n
 actual fun append(obj: Any?): StringBuilder {\n        string += obj.toString()\n        return this\n    }\n\n    actual fun
reverse(): StringBuilder {\n        string = string.asDynamic().split(\"\").reverse().join(\"\")\n        return this\n    }\n\n
 /**\n     * Clears the content of this string builder making it empty.\n     *\n     * @sample
samples.text.Strings.clearStringBuilder\n     */\n    @SinceKotlin(\"1.3\")\n    public fun clear(): StringBuilder {\n
 string = \"\"\n        return this\n    }\n\n    override fun toString(): String = string\n}\n\n\n\n/**\n * Clears the content
of this string builder making it empty.\n *\n * @sample samples.text.Strings.clearStringBuilder\n
*/\n@SinceKotlin(\"1.3\")\n@Suppress(\"EXTENSION_SHADOWED_BY_MEMBER\",
\"NOTHING_TO_INLINE\")\npublic actual inline fun StringBuilder.clear(): StringBuilder = this.clear()\n\n\n/**\n
*  The exception thrown when a character encoding or decoding error occurs.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic
 actual open class CharacterCodingException(message: String?) : Exception(message) {\n    actual constructor() :
this(null)\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n *
Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\npackage kotlin.text\n\n/** Returns the negative [size] if [throwOnMalformed] is false, throws
[CharacterCodingException] otherwise. */\n@UseExperimental(ExperimentalStdlibApi::class)\nprivate fun
malformed(size: Int, index: Int, throwOnMalformed: Boolean): Int {\n    if (throwOnMalformed) throw
CharacterCodingException(\"Malformed sequence starting at ${index - 1}\")\n    return -size\n}\n\n/**\n * Returns
code point corresponding to UTF-16 surrogate pair,\n * where the first of the pair is the [high] and the second is in
the [string] at the [index].\n * Returns zero if the pair is malformed and [throwOnMalformed] is false.\n
 *\n * @throws CharacterCodingException if the pair is malformed and [throwOnMalformed] is true.\n */\nprivate
fun codePointFromSurrogate(string: String, high: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int
{\n    if (high !in 0xD800..0xDBFF || index >= endIndex) {\n        return malformed(0, index, throwOnMalformed)\n
  }\n    val low = string[index].toInt()\n    if (low !in 0xDC00..0xDFFF) {\n        return malformed(0, index,
throwOnMalformed)\n    }\n    return 0x10000 + ((high and 0x3FF) shl 10) or (low and 0x3FF)\n}\n\n/**\n *
Returns code point corresponding to UTF-8 sequence of two bytes,\n * where the first byte of the sequence is the
[byte1] and the second byte is in the [bytes] array at the [index].\n * Returns zero if the sequence is malformed and
[throwOnMalformed] is false.\n *\n * @throws CharacterCodingException if the sequence of two bytes is
malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFrom2(bytes: ByteArray, byte1: Int, index:
 Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n    if (byte1 and 0x1E == 0 || index >= endIndex) {\n
return malformed(0, index, throwOnMalformed)\n    }\n    val byte2 = bytes[index].toInt()\n    if (byte2 and 0xC0 !=
0x80) {\n        return malformed(0, index, throwOnMalformed)\n    }\n    return (byte1 shl 6) xor byte2 xor
0xF80\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of three bytes,\n * where the first byte of
the sequence is the [byte1] and the others are in the [bytes] array starting from the [index].\n * Returns a non-
positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the sequence is
malformed and [throwOnMalformed] is false.\n *\n * @throws CharacterCodingException if the sequence of three
bytes is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFrom3(bytes: ByteArray, byte1:
Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n    if (index >= endIndex) {\n
return malformed(0, index, throwOnMalformed)\n    }\n\n    val byte2 = bytes[index].toInt()\n    if (byte1 and
0xF == 0) {\n        if (byte2 and 0xE0 != 0xA0) {\n            // Non-shortest form\n            return malformed(0, index,
throwOnMalformed)\n        }\n    } else if (byte1 and 0xF == 0xD) {\n        if (byte2 and 0xE0 != 0x80) {\n            //
Surrogate code point\n            return malformed(0, index, throwOnMalformed)\n        }\n    } else if (byte2 and 0xC0
!= 0x80) {\n        return malformed(0, index, throwOnMalformed)\n    }\n\n    if (index + 1 == endIndex) {\n
return malformed(1, index, throwOnMalformed)\n    }\n    val byte3 = bytes[index + 1].toInt()\n    if (byte3 and
0xC0 != 0x80) {\n        return malformed(1, index, throwOnMalformed)\n    }\n\n    return (byte1 shl 12) xor (byte2
shl 6) xor byte3 xor -0x1E080\n}\n\n/**\n * Returns code point corresponding to UTF-8 sequence of four bytes,\n *
where the first byte of the sequence is the [byte1]
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 and the others are in the [bytes] array starting from the [index].\n * Returns a non-positive value indicating number of bytes from [bytes] included in malformed sequence\n * if the sequence is malformed and [throwOnMalformed] is false.\n *\n * @throws CharacterCodingException if the sequence of four bytes is malformed and [throwOnMalformed] is true.\n */\nprivate fun codePointFrom4(bytes: ByteArray, byte1: Int, index: Int, endIndex: Int, throwOnMalformed: Boolean): Int {\n    if (index >= endIndex) {\n        malformed(0, index, throwOnMalformed)\n    }\n\n    val byte2 = bytes[index].toInt()\n    if (byte1 and 0xF == 0x0) {\n        if (byte2 and 0xF0 <= 0x80) {\n            // Non-shortest form\n            return malformed(0, index, throwOnMalformed)\n        }\n    } else if (byte1 and 0xF == 0x4) {\n        if (byte2 and 0xF0 != 0x80) {\n            // Out of Unicode code points domain (larger than U+10FFFF)\n            return malformed(0, index, throwOnMalformed)\n        }\n    } else if (byte1 and 0xF > 0x4) {\n        return malformed(0, index, throwOnMalformed)\n    } else if (byte2 and 0xC0 != 0x80) {\n        return malformed(0, index, throwOnMalformed)\n    }\n\n    if (index + 1 == endIndex) {\n        return malformed(1, index, throwOnMalformed)\n    }\n    val byte3 = bytes[index + 1].toInt()\n    if (byte3 and 0xC0 != 0x80) {\n        return malformed(1, index, throwOnMalformed)\n    }\n\n    if (index + 2 == endIndex) {\n        return malformed(2, index, throwOnMalformed)\n    }\n    val byte4 = bytes[index + 2].toInt()\n    if (byte4 and 0xC0 != 0x80) {\n        return malformed(2, index, throwOnMalformed)\n    }\n    return (byte1 shl 18) xor (byte2 shl 12) xor (byte3 shl 6) xor byte4 xor 0x381F80\n}\n\n/**\n * Maximum number of bytes needed to encode a single char.\n *\n * Code points in `0..0x7F` are encoded in a single byte.\n * Code points in `0x80..0x7FF` are encoded in two bytes.\n * Code points in `0x800..0xD7FF` or in `0xE000..0xFFFF`
 are encoded in three bytes.\n * Surrogate code points in `0xD800..0xDFFF` are not Unicode scalar values, therefore aren't encoded.\n * Code points in `0x10000..0x10FFFF` are represented by a pair of surrogate `Char`s and are encoded in four bytes.\n */\nprivate const val MAX_BYTES_PER_CHAR = 3\n\n/**\n * The byte sequence a malformed UTF-16 char sequence is replaced by.\n */\nprivate val REPLACEMENT_BYTE_SEQUENCE: ByteArray = byteArrayOf(0xEF.toByte(), 0xBF.toByte(), 0xBD.toByte())\n\n/**\n * Encodes the [string] using UTF-8 and returns the resulting [ByteArray].\n *\n * @param string the string to encode.\n * @param startIndex the start offset (inclusive) of the substring to encode.\n * @param endIndex the end offset (exclusive) of the substring to encode.\n * @param throwOnMalformed whether to throw on malformed char sequence or replace by the [REPLACEMENT_BYTE_SEQUENCE].\n *\n * @throws CharacterCodingException if the char sequence is malformed and [throwOnMalformed] is true.\n */\ninternal
 fun encodeUtf8(string: String, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): ByteArray {\n    require(startIndex >= 0 && endIndex <= string.length && startIndex <= endIndex)\n\n    val bytes = ByteArray((endIndex - startIndex) * MAX_BYTES_PER_CHAR)\n    var byteIndex = 0\n    var charIndex = startIndex\n\n    while (charIndex < endIndex) {\n        val code = string[charIndex++].toInt()\n        when {\n            code < 0x80 ->\n                bytes[byteIndex++] = code.toByte()\n            code < 0x800 -> {\n                bytes[byteIndex++] = ((code shr 6) or 0xC0).toByte()\n                bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n            }\n            code < 0xD800 || code >= 0xE000 -> {\n                bytes[byteIndex++] = ((code shr 12) or 0xE0).toByte()\n                bytes[byteIndex++] = (((code shr 6) and 0x3F) or 0x80).toByte()\n                bytes[byteIndex++] = ((code and 0x3F) or 0x80).toByte()\n            }\n            else -> { // Surrogate char value\n                val codePoint = codePointFromSurrogate(string, code, charIndex, endIndex, throwOnMalformed)\n                if (codePoint <= 0) {\n                    bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[0]\n                    bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[1]\n                    bytes[byteIndex++] = REPLACEMENT_BYTE_SEQUENCE[2]\n                } else {\n                    bytes[byteIndex++] = ((codePoint shr 18) or 0xF0).toByte()\n                    bytes[byteIndex++] = (((codePoint shr 12) and 0x3F) or 0x80).toByte()\n                    bytes[byteIndex++] = (((codePoint shr 6) and 0x3F) or 0x80).toByte()\n                    bytes[byteIndex++] = ((codePoint and 0x3F) or 0x80).toByte()\n                    charIndex++\n                }\n            }\n        }\n    }\n\n    return if (bytes.size == byteIndex) bytes else bytes.copyOf(byteIndex)\n}\n\n/**\n * The character a malformed UTF-8 byte sequence is replaced
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by.\n */\nprivate const val REPLACEMENT_CHAR = '\\uFFFD'\n\n/**\n * Decodes the UTF-8 [bytes] array and returns the resulting [String].\n *\n * @param bytes the byte array to decode.\n * @param startIndex the start offset (inclusive) of the array to be decoded.\n * @param endIndex the end offset (exclusive) of the array to be encoded.\n * @param throwOnMalformed whether to throw on malformed byte sequence or replace by the [REPLACEMENT_CHAR].\n *\n * @throws CharacterCodingException if the array is malformed UTF-8 byte sequence and [throwOnMalformed] is true.\n */\ninternal fun decodeUtf8(bytes: ByteArray, startIndex: Int, endIndex: Int, throwOnMalformed: Boolean): String {\n    require(startIndex >= 0 && endIndex <= bytes.size && startIndex <= endIndex)\n\n    var byteIndex = startIndex\n    val stringBuilder = StringBuilder()\n\n    while (byteIndex < endIndex) {\n        val byte = bytes[byteIndex++].toInt()\n        when {\n            byte >= 0 ->\n stringBuilder.append(byte.toChar())\n
            byte shr 5 == -2 -> {\n                val code = codePointFrom2(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n                if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n                } else {\n                    stringBuilder.append(code.toChar())\n byteIndex += 1\n                }\n            }\n            byte shr 4 == -2 -> {\n                val code = codePointFrom3(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n                if (code <= 0) {\n stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n                } else {\n stringBuilder.append(code.toChar())\n                    byteIndex += 2\n                }\n            }\n            byte shr 3 == -2 -> {\n                val code = codePointFrom4(bytes, byte, byteIndex, endIndex, throwOnMalformed)\n  if (code <= 0) {\n                    stringBuilder.append(REPLACEMENT_CHAR)\n                    byteIndex += -code\n                } else {\n                    val high = (code - 0x10000) shr 10 or 0xD800\n                    val low = (code and 0x3FF) or 0xDC00\n                    stringBuilder.append(high.toChar())\n stringBuilder.append(low.toChar())\n                    byteIndex += 3\n                }\n            }\n            else -> {\n  malformed(0, byteIndex, throwOnMalformed)\n                stringBuilder.append(REPLACEMENT_CHAR)\n  }\n        }\n    }\n\n    return stringBuilder.toString()\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic actual enum class DurationUnit(internal val scale:
 Double) {\n    /**\n     * Time unit representing one nanosecond, which is 1/1000 of a microsecond.\n     */\n NANOSECONDS(1e0),\n    /**\n     * Time unit representing one microsecond, which is 1/1000 of a millisecond.\n  */\n    MICROSECONDS(1e3),\n    /**\n     * Time unit representing one millisecond, which is 1/1000 of a second.\n     */\n    MILLISECONDS(1e6),\n    /**\n     * Time unit representing one second.\n     */\n SECONDS(1e9),\n    /**\n     * Time unit representing one minute.\n     */\n    MINUTES(60e9),\n    /**\n     * Time unit representing one hour.\n     */\n    HOURS(3600e9),\n    /**\n     * Time unit representing one day, which is always equal to 24 hours.\n     */\n    DAYS(86400e9);\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal actual fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double {\n val sourceCompareTarget = sourceUnit.scale.compareTo(targetUnit.scale)\n    return when {\n  sourceCompareTarget > 0 -> value * (sourceUnit.scale / targetUnit.scale)\n        sourceCompareTarget < 0 -> value / (targetUnit.scale / sourceUnit.scale)\n        else -> value\n    }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport org.w3c.performance.GlobalPerformance\nimport org.w3c.performance.Performance\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic actual object MonoClock : Clock {\n\n    private val actualClock: Clock = run {\n        val isNode: Boolean = js(\"typeof process !== 'undefined' && process.versions && !!process.versions.node\")\n\n        if (isNode)\n HrTimeClock(js(\"process\").unsafeCast<Process>())\n        else\n js(\"self\").unsafeCast<GlobalPerformance?>()?.performance?.let(::PerformanceClock)\n                ?: DateNowClock\n\n
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}\n\n override fun markNow(): ClockMark = actualClock.markNow()\n}\n\ninternal external interface Process {\n fun hrtime(time: Array<Double> = definedExternally): Array<Double>\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal class HrTimeClock(val process: Process) : Clock {\n\n override fun markNow(): ClockMark = object : ClockMark() {\n val startedAt = process.hrtime()\n override fun elapsedNow(): Duration =\n process.hrtime(startedAt).let { (seconds, nanos) -> seconds.seconds + nanos.nanoseconds }\n }\n\n override fun toString(): String = \"Clock(process.hrtime())\"\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal class PerformanceClock(val performance: Performance) : AbstractDoubleClock(unit = DurationUnit.MILLISECONDS) {\n override fun read(): Double = performance.now()\n override fun toString(): String = \"Clock(self.performance.now())\"\n}\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal object DateNowClock
: AbstractDoubleClock(unit = DurationUnit.MILLISECONDS) {\n override fun read(): Double = kotlin.js.Date.now()\n override fun toString(): String = \"Clock(Date.now())\"\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.js.json\nimport kotlin.math.*\n\ninternal actual fun formatToExactDecimals(value: Double, decimals: Int): String {\n val rounded = if (decimals == 0) {\n value\n } else {\n val pow = 10.0.pow(decimals)\n @Suppress(\"DEPRECATION\", \"DEPRECATION_ERROR\")\n kotlin.js.Math.round(abs(value) * pow) / pow * sign(value)\n }\n return rounded.asDynamic().toFixed(decimals).unsafeCast<String>()\n}\n\ninternal actual fun formatUpToDecimals(value: Double, decimals: Int): String {\n return value.asDynamic().toLocaleString(\"en-us\",
json(\"maximumFractionDigits\" to decimals)).unsafeCast<String>()\n}\n\ninternal actual fun formatScientific(value: Double): String {\n return value.asDynamic().toExponential(2).unsafeCast<String>()\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.khronos.webgl\n\nimport kotlin.js.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external interface WebGLContextAttributes {\n var alpha: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n var depth: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n var stencil: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var antialias: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n var premultipliedAlpha: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n var preserveDrawingBuffer: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var preferLowPowerToHighPerformance: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var failIfMajorPerformanceCaveat: Boolean? /* = false */\n get()
= definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun WebGLContextAttributes(alpha: Boolean? = true, depth: Boolean? = true, stencil: Boolean? = false, antialias: Boolean? = true, premultipliedAlpha: Boolean? = true, preserveDrawingBuffer: Boolean? = false, preferLowPowerToHighPerformance: Boolean? = false, failIfMajorPerformanceCaveat: Boolean? = false): WebGLContextAttributes {\n val o = js(\"({})\")\n o[\"alpha\"] = alpha\n o[\"depth\"] = depth\n o[\"stencil\"] = stencil\n o[\"antialias\"] = antialias\n o[\"premultipliedAlpha\"] = premultipliedAlpha\n o[\"preserveDrawingBuffer\"] = preserveDrawingBuffer\n o[\"preferLowPowerToHighPerformance\"] =

preferLowPowerToHighPerformance\n   o[\"failIfMajorPerformanceCaveat\"] = failIfMajorPerformanceCaveat\n   return o\n}\n\npublic external abstract class WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLBuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLBuffer)
 to Kotlin\n */\npublic external abstract class WebGLBuffer : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLFramebuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLFramebuffer) to Kotlin\n */\npublic external abstract class WebGLFramebuffer : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLProgram](https://developer.mozilla.org/en/docs/Web/API/WebGLProgram) to Kotlin\n */\npublic external abstract class WebGLProgram : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLRenderbuffer](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderbuffer) to Kotlin\n */\npublic external abstract class WebGLRenderbuffer : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLShader](https://developer.mozilla.org/en/docs/Web/API/WebGLShader) to Kotlin\n */\npublic external abstract class WebGLShader : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLTexture](https://developer.mozilla.org/en/docs/Web/API/WebGLTexture) to Kotlin\n */\npublic external abstract class
 WebGLTexture : WebGLObject\n\n/**\n * Exposes the JavaScript [WebGLUniformLocation](https://developer.mozilla.org/en/docs/Web/API/WebGLUniformLocation) to Kotlin\n */\npublic external abstract class WebGLUniformLocation\n\n/**\n * Exposes the JavaScript [WebGLActiveInfo](https://developer.mozilla.org/en/docs/Web/API/WebGLActiveInfo) to Kotlin\n */\npublic external abstract class WebGLActiveInfo {\n   open val size: Int\n   open val type: Int\n   open val name: String\n}\n\n/**\n * Exposes the JavaScript [WebGLShaderPrecisionFormat](https://developer.mozilla.org/en/docs/Web/API/WebGLShaderPrecisionFormat) to Kotlin\n */\npublic external abstract class WebGLShaderPrecisionFormat {\n   open val rangeMin: Int\n   open val rangeMax: Int\n   open val precision: Int\n}\n\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface WebGLRenderingContextBase {\n   val canvas: HTMLCanvasElement\n   val drawingBufferWidth: Int\n   val drawingBufferHeight: Int\n   fun
 getContextAttributes(): WebGLContextAttributes?\n   fun isContextLost(): Boolean\n   fun getSupportedExtensions(): Array<String>?\n   fun getExtension(name: String): dynamic\n   fun activeTexture(texture: Int)\n   fun attachShader(program: WebGLProgram?, shader: WebGLShader?)\n   fun bindAttribLocation(program: WebGLProgram?, index: Int, name: String)\n   fun bindBuffer(target: Int, buffer: WebGLBuffer?)\n   fun bindFramebuffer(target: Int, framebuffer: WebGLFramebuffer?)\n   fun bindRenderbuffer(target: Int, renderbuffer: WebGLRenderbuffer?)\n   fun bindTexture(target: Int, texture: WebGLTexture?)\n   fun blendColor(red: Float, green: Float, blue: Float, alpha: Float)\n   fun blendEquation(mode: Int)\n   fun blendEquationSeparate(modeRGB: Int, modeAlpha: Int)\n   fun blendFunc(sfactor: Int, dfactor: Int)\n   fun blendFuncSeparate(srcRGB: Int, dstRGB: Int, srcAlpha: Int, dstAlpha: Int)\n   fun bufferData(target: Int, size: Int, usage: Int)\n   fun bufferData(target: Int,
 data: BufferDataSource?, usage: Int)\n   fun bufferSubData(target: Int, offset: Int, data: BufferDataSource?)\n   fun checkFramebufferStatus(target: Int): Int\n   fun clear(mask: Int)\n   fun clearColor(red: Float, green: Float, blue: Float, alpha: Float)\n   fun clearDepth(depth: Float)\n   fun clearStencil(s: Int)\n   fun colorMask(red: Boolean, green: Boolean, blue: Boolean, alpha: Boolean)\n   fun compileShader(shader: WebGLShader?)\n   fun compressedTexImage2D(target: Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, data: ArrayBufferView)\n   fun compressedTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int, format: Int, data: ArrayBufferView)\n   fun copyTexImage2D(target: Int, level: Int, internalformat: Int, x: Int, y: Int, width: Int, height: Int, border: Int)\n   fun copyTexSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, x: Int, y: Int, width: Int, height: Int)\n   fun createBuffer():
 WebGLBuffer?\n   fun createFramebuffer(): WebGLFramebuffer?\n   fun createProgram(): WebGLProgram?\n   fun createRenderbuffer(): WebGLRenderbuffer?\n   fun createShader(type: Int): WebGLShader?\n   fun createTexture(): WebGLTexture?\n   fun cullFace(mode: Int)\n   fun deleteBuffer(buffer: WebGLBuffer?)\n   fun

deleteFramebuffer(framebuffer: WebGLFramebuffer?)\n fun deleteProgram(program: WebGLProgram?)\n fun deleteRenderbuffer(renderbuffer: WebGLRenderbuffer?)\n fun deleteShader(shader: WebGLShader?)\n fun deleteTexture(texture: WebGLTexture?)\n fun depthFunc(func: Int)\n fun depthMask(flag: Boolean)\n fun depthRange(zNear: Float, zFar: Float)\n fun detachShader(program: WebGLProgram?, shader: WebGLShader?)\n fun disable(cap: Int)\n fun disableVertexAttribArray(index: Int)\n fun drawArrays(mode: Int, first: Int, count: Int)\n fun drawElements(mode: Int, count: Int, type: Int, offset: Int)\n fun enable(cap: Int)\n fun enableVertexAttribArray(index:
Int)\n fun finish()\n fun flush()\n fun framebufferRenderbuffer(target: Int, attachment: Int, renderbuffertarget: Int, renderbuffer: WebGLRenderbuffer?)\n fun framebufferTexture2D(target: Int, attachment: Int, textarget: Int, texture: WebGLTexture?, level: Int)\n fun frontFace(mode: Int)\n fun generateMipmap(target: Int)\n fun getActiveAttrib(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n fun getActiveUniform(program: WebGLProgram?, index: Int): WebGLActiveInfo?\n fun getAttachedShaders(program: WebGLProgram?): Array<WebGLShader>?\n fun getAttribLocation(program: WebGLProgram?, name: String): Int\n fun getBufferParameter(target: Int, pname: Int): Any?\n fun getParameter(pname: Int): Any?\n fun getError(): Int\n fun getFramebufferAttachmentParameter(target: Int, attachment: Int, pname: Int): Any?\n fun getProgramParameter(program: WebGLProgram?, pname: Int): Any?\n fun getProgramInfoLog(program: WebGLProgram?):
String?\n fun getRenderbufferParameter(target: Int, pname: Int): Any?\n fun getShaderParameter(shader: WebGLShader?, pname: Int): Any?\n fun getShaderPrecisionFormat(shadertype: Int, precisiontype: Int): WebGLShaderPrecisionFormat?\n fun getShaderInfoLog(shader: WebGLShader?): String?\n fun getShaderSource(shader: WebGLShader?): String?\n fun getTexParameter(target: Int, pname: Int): Any?\n fun getUniform(program: WebGLProgram?, location: WebGLUniformLocation?): Any?\n fun getUniformLocation(program: WebGLProgram?, name: String): WebGLUniformLocation?\n fun getVertexAttrib(index: Int, pname: Int): Any?\n fun getVertexAttribOffset(index: Int, pname: Int): Int\n fun hint(target: Int, mode: Int)\n fun isBuffer(buffer: WebGLBuffer?): Boolean\n fun isEnabled(cap: Int): Boolean\n fun isFramebuffer(framebuffer: WebGLFramebuffer?): Boolean\n fun isProgram(program: WebGLProgram?): Boolean\n fun isRenderbuffer(renderbuffer: WebGLRenderbuffer?): Boolean\n
fun isShader(shader: WebGLShader?): Boolean\n fun isTexture(texture: WebGLTexture?): Boolean\n fun lineWidth(width: Float)\n fun linkProgram(program: WebGLProgram?)\n fun pixelStorei(pname: Int, param: Int)\n fun polygonOffset(factor: Float, units: Float)\n fun readPixels(x: Int, y: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun renderbufferStorage(target: Int, internalformat: Int, width: Int, height: Int)\n fun sampleCoverage(value: Float, invert: Boolean)\n fun scissor(x: Int, y: Int, width: Int, height: Int)\n fun shaderSource(shader: WebGLShader?, source: String)\n fun stencilFunc(func: Int, ref: Int, mask: Int)\n fun stencilFuncSeparate(face: Int, func: Int, ref: Int, mask: Int)\n fun stencilMask(mask: Int)\n fun stencilMaskSeparate(face: Int, mask: Int)\n fun stencilOp(fail: Int, zfail: Int, zpass: Int)\n fun stencilOpSeparate(face: Int, fail: Int, zfail: Int, zpass: Int)\n fun texImage2D(target:
Int, level: Int, internalformat: Int, width: Int, height: Int, border: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun texImage2D(target: Int, level: Int, internalformat: Int, format: Int, type: Int, source: TexImageSource?)\n fun texParameterf(target: Int, pname: Int, param: Float)\n fun texParameteri(target: Int, pname: Int, param: Int)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, width: Int, height: Int, format: Int, type: Int, pixels: ArrayBufferView?)\n fun texSubImage2D(target: Int, level: Int, xoffset: Int, yoffset: Int, format: Int, type: Int, source: TexImageSource?)\n fun uniform1f(location: WebGLUniformLocation?, x: Float)\n fun uniform1fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform1fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform1i(location: WebGLUniformLocation?, x: Int)\n fun uniform1iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform1iv(location:
WebGLUniformLocation?, v: Array<Int>)\n fun uniform2f(location: WebGLUniformLocation?, x: Float, y: Float)\n fun uniform2fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform2fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform2i(location: WebGLUniformLocation?, x: Int, y: Int)\n

fun uniform2iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform2iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun uniform3f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float)\n fun uniform3fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform3fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform3i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int)\n fun uniform3iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform3iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun uniform4f(location: WebGLUniformLocation?, x: Float, y: Float, z: Float, w: Float)\n
fun uniform4fv(location: WebGLUniformLocation?, v: Float32Array)\n fun uniform4fv(location: WebGLUniformLocation?, v: Array<Float>)\n fun uniform4i(location: WebGLUniformLocation?, x: Int, y: Int, z: Int, w: Int)\n fun uniform4iv(location: WebGLUniformLocation?, v: Int32Array)\n fun uniform4iv(location: WebGLUniformLocation?, v: Array<Int>)\n fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun uniformMatrix2fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun uniformMatrix3fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Float32Array)\n fun uniformMatrix4fv(location: WebGLUniformLocation?, transpose: Boolean, value: Array<Float>)\n fun useProgram(program: WebGLProgram?)\n
fun validateProgram(program: WebGLProgram?)\n fun vertexAttrib1f(index: Int, x: Float)\n fun vertexAttrib1fv(index: Int, values: dynamic)\n fun vertexAttrib2f(index: Int, x: Float, y: Float)\n fun vertexAttrib2fv(index: Int, values: dynamic)\n fun vertexAttrib3f(index: Int, x: Float, y: Float, z: Float)\n fun vertexAttrib3fv(index: Int, values: dynamic)\n fun vertexAttrib4f(index: Int, x: Float, y: Float, z: Float, w: Float)\n fun vertexAttrib4fv(index: Int, values: dynamic)\n fun vertexAttribPointer(index: Int, size: Int, type: Int, normalized: Boolean, stride: Int, offset: Int)\n fun viewport(x: Int, y: Int, width: Int, height: Int)\n\n companion object {\n val DEPTH_BUFFER_BIT: Int\n val STENCIL_BUFFER_BIT: Int\n val COLOR_BUFFER_BIT: Int\n val POINTS: Int\n val LINES: Int\n val LINE_LOOP: Int\n val LINE_STRIP: Int\n val TRIANGLES: Int\n val TRIANGLE_STRIP: Int\n val TRIANGLE_FAN: Int\n val ZERO: Int\n val ONE: Int\n val SRC_COLOR: Int\n val ONE_MINUS_SRC_COLOR: Int\n val SRC_ALPHA: Int\n val ONE_MINUS_SRC_ALPHA: Int\n val DST_ALPHA: Int\n val ONE_MINUS_DST_ALPHA: Int\n val DST_COLOR: Int\n val ONE_MINUS_DST_COLOR: Int\n val SRC_ALPHA_SATURATE: Int\n val FUNC_ADD: Int\n val BLEND_EQUATION: Int\n val BLEND_EQUATION_RGB: Int\n val BLEND_EQUATION_ALPHA: Int\n val FUNC_SUBTRACT: Int\n val FUNC_REVERSE_SUBTRACT: Int\n val BLEND_DST_RGB: Int\n val BLEND_SRC_RGB: Int\n val BLEND_DST_ALPHA: Int\n val BLEND_SRC_ALPHA: Int\n val CONSTANT_COLOR: Int\n val ONE_MINUS_CONSTANT_COLOR: Int\n val CONSTANT_ALPHA: Int\n val ONE_MINUS_CONSTANT_ALPHA: Int\n val BLEND_COLOR: Int\n val ARRAY_BUFFER: Int\n val ELEMENT_ARRAY_BUFFER: Int\n val ARRAY_BUFFER_BINDING: Int\n val ELEMENT_ARRAY_BUFFER_BINDING:
Int\n val STREAM_DRAW: Int\n val STATIC_DRAW: Int\n val DYNAMIC_DRAW: Int\n val BUFFER_SIZE: Int\n val BUFFER_USAGE: Int\n val CURRENT_VERTEX_ATTRIB: Int\n val FRONT: Int\n val BACK: Int\n val FRONT_AND_BACK: Int\n val CULL_FACE: Int\n val BLEND: Int\n val DITHER: Int\n val STENCIL_TEST: Int\n val DEPTH_TEST: Int\n val SCISSOR_TEST: Int\n val POLYGON_OFFSET_FILL: Int\n val SAMPLE_ALPHA_TO_COVERAGE: Int\n val SAMPLE_COVERAGE: Int\n val NO_ERROR: Int\n val INVALID_ENUM: Int\n val INVALID_VALUE: Int\n val INVALID_OPERATION: Int\n val OUT_OF_MEMORY: Int\n val CW: Int\n val CCW: Int\n val LINE_WIDTH: Int\n val ALIASED_POINT_SIZE_RANGE: Int\n val ALIASED_LINE_WIDTH_RANGE: Int\n val CULL_FACE_MODE: Int\n val FRONT_FACE: Int\n val DEPTH_RANGE: Int\n

val DEPTH_WRITEMASK: Int\n val DEPTH_CLEAR_VALUE: Int\n val DEPTH_FUNC: Int\n val STENCIL_CLEAR_VALUE: Int\n val STENCIL_FUNC: Int\n val STENCIL_FAIL: Int\n val STENCIL_PASS_DEPTH_FAIL: Int\n val STENCIL_PASS_DEPTH_PASS: Int\n val STENCIL_REF: Int\n val STENCIL_VALUE_MASK: Int\n val STENCIL_WRITEMASK: Int\n val STENCIL_BACK_FUNC: Int\n val STENCIL_BACK_FAIL: Int\n val STENCIL_BACK_PASS_DEPTH_FAIL: Int\n val STENCIL_BACK_PASS_DEPTH_PASS: Int\n val STENCIL_BACK_REF: Int\n val STENCIL_BACK_VALUE_MASK: Int\n val STENCIL_BACK_WRITEMASK: Int\n val VIEWPORT: Int\n val SCISSOR_BOX: Int\n val COLOR_CLEAR_VALUE: Int\n val COLOR_WRITEMASK: Int\n val UNPACK_ALIGNMENT: Int\n val PACK_ALIGNMENT: Int\n val MAX_TEXTURE_SIZE: Int\n val MAX_VIEWPORT_DIMS: Int\n val SUBPIXEL_BITS: Int\n val RED_BITS: Int\n val GREEN_BITS: Int\n val BLUE_BITS: Int\n val ALPHA_BITS: Int\n val DEPTH_BITS: Int\n val STENCIL_BITS: Int\n val POLYGON_OFFSET_UNITS: Int\n val POLYGON_OFFSET_FACTOR: Int\n val TEXTURE_BINDING_2D: Int\n val SAMPLE_BUFFERS: Int\n val SAMPLES: Int\n val SAMPLE_COVERAGE_VALUE: Int\n val SAMPLE_COVERAGE_INVERT: Int\n val COMPRESSED_TEXTURE_FORMATS: Int\n val DONT_CARE: Int\n val FASTEST: Int\n val NICEST: Int\n val GENERATE_MIPMAP_HINT: Int\n val BYTE: Int\n val UNSIGNED_BYTE: Int\n val SHORT: Int\n val UNSIGNED_SHORT: Int\n val INT: Int\n val UNSIGNED_INT: Int\n val FLOAT: Int\n val DEPTH_COMPONENT: Int\n val ALPHA: Int\n val RGB: Int\n val RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE_ALPHA: Int\n val UNSIGNED_SHORT_4_4_4_4: Int\n val UNSIGNED_SHORT_5_5_5_1: Int\n val UNSIGNED_SHORT_5_6_5: Int\n val FRAGMENT_SHADER: Int\n val VERTEX_SHADER: Int\n val MAX_VERTEX_ATTRIBS: Int\n val MAX_VERTEX_UNIFORM_VECTORS: Int\n val MAX_VARYING_VECTORS: Int\n val MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int\n val MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int\n val MAX_TEXTURE_IMAGE_UNITS: Int\n val MAX_FRAGMENT_UNIFORM_VECTORS: Int\n val SHADER_TYPE: Int\n val DELETE_STATUS: Int\n val LINK_STATUS: Int\n val VALIDATE_STATUS: Int\n val ATTACHED_SHADERS: Int\n val ACTIVE_UNIFORMS: Int\n val ACTIVE_ATTRIBUTES: Int\n val SHADING_LANGUAGE_VERSION: Int\n val CURRENT_PROGRAM: Int\n val NEVER: Int\n val LESS: Int\n val EQUAL: Int\n val LEQUAL: Int\n val GREATER: Int\n val NOTEQUAL: Int\n val GEQUAL: Int\n val ALWAYS: Int\n val KEEP: Int\n val REPLACE: Int\n val INCR: Int\n val DECR:
Int\n val INVERT: Int\n val INCR_WRAP: Int\n val DECR_WRAP: Int\n val VENDOR: Int\n val RENDERER: Int\n val VERSION: Int\n val NEAREST: Int\n val LINEAR: Int\n val NEAREST_MIPMAP_NEAREST: Int\n val LINEAR_MIPMAP_NEAREST: Int\n val NEAREST_MIPMAP_LINEAR: Int\n val LINEAR_MIPMAP_LINEAR: Int\n val TEXTURE_MAG_FILTER: Int\n val TEXTURE_MIN_FILTER: Int\n val TEXTURE_WRAP_S: Int\n val TEXTURE_WRAP_T: Int\n val TEXTURE_2D: Int\n val TEXTURE: Int\n val TEXTURE_CUBE_MAP: Int\n val TEXTURE_BINDING_CUBE_MAP: Int\n val TEXTURE_CUBE_MAP_POSITIVE_X: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_X: Int\n val TEXTURE_CUBE_MAP_POSITIVE_Y: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int\n val TEXTURE_CUBE_MAP_POSITIVE_Z: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int\n val MAX_CUBE_MAP_TEXTURE_SIZE: Int\n val TEXTURE0: Int\n val TEXTURE1: Int\n val TEXTURE2: Int\n val TEXTURE3: Int\n val TEXTURE4: Int\n val TEXTURE5: Int\n val TEXTURE6: Int\n val TEXTURE7: Int\n val TEXTURE8: Int\n val TEXTURE9: Int\n val TEXTURE10: Int\n val TEXTURE11: Int\n val TEXTURE12: Int\n val TEXTURE13: Int\n val TEXTURE14: Int\n val TEXTURE15: Int\n val TEXTURE16: Int\n val TEXTURE17: Int\n val TEXTURE18: Int\n val TEXTURE19: Int\n val TEXTURE20: Int\n val

TEXTURE21: Int\n val TEXTURE22: Int\n val TEXTURE23: Int\n val TEXTURE24: Int\n val TEXTURE25: Int\n val TEXTURE26: Int\n val TEXTURE27: Int\n val TEXTURE28: Int\n val TEXTURE29: Int\n val TEXTURE30: Int\n val TEXTURE31: Int\n val ACTIVE_TEXTURE: Int\n val REPEAT: Int\n val CLAMP_TO_EDGE: Int\n val MIRRORED_REPEAT: Int\n val FLOAT_VEC2:
Int\n val FLOAT_VEC3: Int\n val FLOAT_VEC4: Int\n val INT_VEC2: Int\n val INT_VEC3: Int\n val INT_VEC4: Int\n val BOOL: Int\n val BOOL_VEC2: Int\n val BOOL_VEC3: Int\n val BOOL_VEC4: Int\n val FLOAT_MAT2: Int\n val FLOAT_MAT3: Int\n val FLOAT_MAT4: Int\n val SAMPLER_2D: Int\n val SAMPLER_CUBE: Int\n val VERTEX_ATTRIB_ARRAY_ENABLED: Int\n val VERTEX_ATTRIB_ARRAY_SIZE: Int\n val VERTEX_ATTRIB_ARRAY_STRIDE: Int\n val VERTEX_ATTRIB_ARRAY_TYPE: Int\n val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\n val VERTEX_ATTRIB_ARRAY_POINTER: Int\n val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int\n val IMPLEMENTATION_COLOR_READ_TYPE: Int\n val IMPLEMENTATION_COLOR_READ_FORMAT: Int\n val COMPILE_STATUS: Int\n val LOW_FLOAT: Int\n val MEDIUM_FLOAT: Int\n val HIGH_FLOAT: Int\n val LOW_INT: Int\n val MEDIUM_INT: Int\n
val HIGH_INT: Int\n val FRAMEBUFFER: Int\n val RENDERBUFFER: Int\n val RGBA4: Int\n val RGB5_A1: Int\n val RGB565: Int\n val DEPTH_COMPONENT16: Int\n val STENCIL_INDEX: Int\n val STENCIL_INDEX8: Int\n val DEPTH_STENCIL: Int\n val RENDERBUFFER_WIDTH: Int\n val RENDERBUFFER_HEIGHT: Int\n val RENDERBUFFER_INTERNAL_FORMAT: Int\n val RENDERBUFFER_RED_SIZE: Int\n val RENDERBUFFER_GREEN_SIZE: Int\n val RENDERBUFFER_BLUE_SIZE: Int\n val RENDERBUFFER_ALPHA_SIZE: Int\n val RENDERBUFFER_DEPTH_SIZE: Int\n val RENDERBUFFER_STENCIL_SIZE: Int\n val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n val FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n val COLOR_ATTACHMENT0: Int\n val DEPTH_ATTACHMENT: Int\n val STENCIL_ATTACHMENT:
Int\n val DEPTH_STENCIL_ATTACHMENT: Int\n val NONE: Int\n val FRAMEBUFFER_COMPLETE: Int\n val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\n val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n val FRAMEBUFFER_UNSUPPORTED: Int\n val FRAMEBUFFER_BINDING: Int\n val RENDERBUFFER_BINDING: Int\n val MAX_RENDERBUFFER_SIZE: Int\n val INVALID_FRAMEBUFFER_OPERATION: Int\n val UNPACK_FLIP_Y_WEBGL: Int\n val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n val CONTEXT_LOST_WEBGL: Int\n val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n val BROWSER_DEFAULT_WEBGL: Int\n }\n}\n\n/**\n * Exposes the JavaScript [WebGLRenderingContext](https://developer.mozilla.org/en/docs/Web/API/WebGLRenderingContext) to Kotlin\n */\npublic external abstract class WebGLRenderingContext : WebGLRenderingContextBase, RenderingContext {\n companion object {\n val DEPTH_BUFFER_BIT:
Int\n val STENCIL_BUFFER_BIT: Int\n val COLOR_BUFFER_BIT: Int\n val POINTS: Int\n val LINES: Int\n val LINE_LOOP: Int\n val LINE_STRIP: Int\n val TRIANGLES: Int\n val TRIANGLE_STRIP: Int\n val TRIANGLE_FAN: Int\n val ZERO: Int\n val ONE: Int\n val SRC_COLOR: Int\n val ONE_MINUS_SRC_COLOR: Int\n val SRC_ALPHA: Int\n val ONE_MINUS_SRC_ALPHA: Int\n val DST_ALPHA: Int\n val ONE_MINUS_DST_ALPHA: Int\n val DST_COLOR: Int\n val ONE_MINUS_DST_COLOR: Int\n val SRC_ALPHA_SATURATE: Int\n val FUNC_ADD: Int\n val BLEND_EQUATION: Int\n val BLEND_EQUATION_RGB: Int\n val BLEND_EQUATION_ALPHA: Int\n val FUNC_SUBTRACT: Int\n val FUNC_REVERSE_SUBTRACT:

Int\n val BLEND_DST_RGB: Int\n val BLEND_SRC_RGB: Int\n val BLEND_DST_ALPHA: Int\n val BLEND_SRC_ALPHA: Int\n val CONSTANT_COLOR: Int\n val ONE_MINUS_CONSTANT_COLOR: Int\n val CONSTANT_ALPHA: Int\n val ONE_MINUS_CONSTANT_ALPHA: Int\n val BLEND_COLOR: Int\n val ARRAY_BUFFER: Int\n val ELEMENT_ARRAY_BUFFER: Int\n val ARRAY_BUFFER_BINDING: Int\n val ELEMENT_ARRAY_BUFFER_BINDING: Int\n val STREAM_DRAW: Int\n val STATIC_DRAW: Int\n val DYNAMIC_DRAW: Int\n val BUFFER_SIZE: Int\n val BUFFER_USAGE: Int\n val CURRENT_VERTEX_ATTRIB: Int\n val FRONT: Int\n val BACK: Int\n val FRONT_AND_BACK: Int\n val CULL_FACE: Int\n val BLEND: Int\n val DITHER: Int\n val STENCIL_TEST: Int\n val DEPTH_TEST: Int\n val SCISSOR_TEST: Int\n val POLYGON_OFFSET_FILL: Int\n val SAMPLE_ALPHA_TO_COVERAGE: Int\n val SAMPLE_COVERAGE: Int\n val NO_ERROR: Int\n val INVALID_ENUM: Int\n val INVALID_VALUE: Int\n val INVALID_OPERATION: Int\n val OUT_OF_MEMORY:
Int\n val CW: Int\n val CCW: Int\n val LINE_WIDTH: Int\n val ALIASED_POINT_SIZE_RANGE: Int\n val ALIASED_LINE_WIDTH_RANGE: Int\n val CULL_FACE_MODE: Int\n val FRONT_FACE: Int\n val DEPTH_RANGE: Int\n val DEPTH_WRITEMASK: Int\n val DEPTH_CLEAR_VALUE: Int\n val DEPTH_FUNC: Int\n val STENCIL_CLEAR_VALUE: Int\n val STENCIL_FUNC: Int\n val STENCIL_FAIL: Int\n val STENCIL_PASS_DEPTH_FAIL: Int\n val STENCIL_PASS_DEPTH_PASS: Int\n val STENCIL_REF: Int\n val STENCIL_VALUE_MASK: Int\n val STENCIL_WRITEMASK: Int\n val STENCIL_BACK_FUNC: Int\n val STENCIL_BACK_FAIL: Int\n val STENCIL_BACK_PASS_DEPTH_FAIL: Int\n val STENCIL_BACK_PASS_DEPTH_PASS: Int\n val STENCIL_BACK_REF: Int\n val STENCIL_BACK_VALUE_MASK: Int\n val STENCIL_BACK_WRITEMASK: Int\n val VIEWPORT: Int\n val SCISSOR_BOX: Int\n val COLOR_CLEAR_VALUE: Int\n val COLOR_WRITEMASK: Int\n val UNPACK_ALIGNMENT: Int\n val PACK_ALIGNMENT: Int\n val MAX_TEXTURE_SIZE: Int\n val MAX_VIEWPORT_DIMS: Int\n val SUBPIXEL_BITS: Int\n val RED_BITS: Int\n val GREEN_BITS: Int\n val BLUE_BITS: Int\n val ALPHA_BITS: Int\n val DEPTH_BITS: Int\n val STENCIL_BITS: Int\n val POLYGON_OFFSET_UNITS: Int\n val POLYGON_OFFSET_FACTOR: Int\n val TEXTURE_BINDING_2D: Int\n val SAMPLE_BUFFERS: Int\n val SAMPLES: Int\n val SAMPLE_COVERAGE_VALUE: Int\n val SAMPLE_COVERAGE_INVERT: Int\n val COMPRESSED_TEXTURE_FORMATS: Int\n val DONT_CARE: Int\n val FASTEST: Int\n val NICEST: Int\n val GENERATE_MIPMAP_HINT: Int\n val BYTE: Int\n val UNSIGNED_BYTE: Int\n val SHORT: Int\n val UNSIGNED_SHORT: Int\n val INT: Int\n val UNSIGNED_INT: Int\n

val FLOAT: Int\n val DEPTH_COMPONENT: Int\n val ALPHA: Int\n val RGB: Int\n val RGBA: Int\n val LUMINANCE: Int\n val LUMINANCE_ALPHA: Int\n val UNSIGNED_SHORT_4_4_4_4: Int\n val UNSIGNED_SHORT_5_5_5_1: Int\n val UNSIGNED_SHORT_5_6_5: Int\n val FRAGMENT_SHADER: Int\n val VERTEX_SHADER: Int\n val MAX_VERTEX_ATTRIBS: Int\n val MAX_VERTEX_UNIFORM_VECTORS: Int\n val MAX_VARYING_VECTORS: Int\n val MAX_COMBINED_TEXTURE_IMAGE_UNITS: Int\n val MAX_VERTEX_TEXTURE_IMAGE_UNITS: Int\n val MAX_TEXTURE_IMAGE_UNITS: Int\n val MAX_FRAGMENT_UNIFORM_VECTORS: Int\n val SHADER_TYPE: Int\n val DELETE_STATUS: Int\n val LINK_STATUS: Int\n val VALIDATE_STATUS: Int\n val ATTACHED_SHADERS: Int\n val ACTIVE_UNIFORMS: Int\n val ACTIVE_ATTRIBUTES: Int\n val SHADING_LANGUAGE_VERSION: Int\n val CURRENT_PROGRAM: Int\n val NEVER:
Int\n val LESS: Int\n val EQUAL: Int\n val LEQUAL: Int\n val GREATER: Int\n val NOTEQUAL: Int\n val GEQUAL: Int\n val ALWAYS: Int\n val KEEP: Int\n val REPLACE: Int\n

val INCR: Int\n val DECR: Int\n val INVERT: Int\n val INCR_WRAP: Int\n val DECR_WRAP: Int\n val VENDOR: Int\n val RENDERER: Int\n val VERSION: Int\n val NEAREST: Int\n val LINEAR: Int\n val NEAREST_MIPMAP_NEAREST: Int\n val LINEAR_MIPMAP_NEAREST: Int\n val NEAREST_MIPMAP_LINEAR: Int\n val LINEAR_MIPMAP_LINEAR: Int\n val TEXTURE_MAG_FILTER: Int\n val TEXTURE_MIN_FILTER: Int\n val TEXTURE_WRAP_S: Int\n val TEXTURE_WRAP_T: Int\n val TEXTURE_2D: Int\n val TEXTURE: Int\n val TEXTURE_CUBE_MAP: Int\n val TEXTURE_BINDING_CUBE_MAP: Int\n val TEXTURE_CUBE_MAP_POSITIVE_X: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_X: Int\n val TEXTURE_CUBE_MAP_POSITIVE_Y: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Y: Int\n val TEXTURE_CUBE_MAP_POSITIVE_Z: Int\n val TEXTURE_CUBE_MAP_NEGATIVE_Z: Int\n val MAX_CUBE_MAP_TEXTURE_SIZE: Int\n val TEXTURE0: Int\n val TEXTURE1: Int\n val TEXTURE2: Int\n val TEXTURE3: Int\n val TEXTURE4: Int\n val TEXTURE5: Int\n val TEXTURE6: Int\n val TEXTURE7: Int\n val TEXTURE8: Int\n val TEXTURE9: Int\n val TEXTURE10: Int\n val TEXTURE11: Int\n val TEXTURE12: Int\n val TEXTURE13: Int\n val TEXTURE14: Int\n val TEXTURE15: Int\n val TEXTURE16: Int\n val TEXTURE17: Int\n val TEXTURE18: Int\n val TEXTURE19: Int\n val TEXTURE20: Int\n val TEXTURE21: Int\n val TEXTURE22: Int\n val TEXTURE23: Int\n val TEXTURE24: Int\n val TEXTURE25: Int\n val TEXTURE26: Int\n val
TEXTURE27: Int\n val TEXTURE28: Int\n val TEXTURE29: Int\n val TEXTURE30: Int\n val TEXTURE31: Int\n val ACTIVE_TEXTURE: Int\n val REPEAT: Int\n val CLAMP_TO_EDGE: Int\n val MIRRORED_REPEAT: Int\n val FLOAT_VEC2: Int\n val FLOAT_VEC3: Int\n val FLOAT_VEC4: Int\n val INT_VEC2: Int\n val INT_VEC3: Int\n val INT_VEC4: Int\n val BOOL: Int\n val BOOL_VEC2: Int\n val BOOL_VEC3: Int\n val BOOL_VEC4: Int\n val FLOAT_MAT2: Int\n val FLOAT_MAT3: Int\n val FLOAT_MAT4: Int\n val SAMPLER_2D: Int\n val SAMPLER_CUBE: Int\n val VERTEX_ATTRIB_ARRAY_ENABLED: Int\n val VERTEX_ATTRIB_ARRAY_SIZE: Int\n val VERTEX_ATTRIB_ARRAY_STRIDE: Int\n val VERTEX_ATTRIB_ARRAY_TYPE: Int\n val VERTEX_ATTRIB_ARRAY_NORMALIZED: Int\n val VERTEX_ATTRIB_ARRAY_POINTER: Int\n val VERTEX_ATTRIB_ARRAY_BUFFER_BINDING: Int\n val IMPLEMENTATION_COLOR_READ_TYPE: Int\n val IMPLEMENTATION_COLOR_READ_FORMAT: Int\n val COMPILE_STATUS: Int\n val LOW_FLOAT: Int\n val MEDIUM_FLOAT: Int\n val HIGH_FLOAT: Int\n val LOW_INT: Int\n val MEDIUM_INT: Int\n val HIGH_INT: Int\n val FRAMEBUFFER: Int\n val RENDERBUFFER: Int\n val RGBA4: Int\n val RGB5_A1: Int\n val RGB565: Int\n val DEPTH_COMPONENT16: Int\n val STENCIL_INDEX: Int\n val STENCIL_INDEX8: Int\n val DEPTH_STENCIL: Int\n val RENDERBUFFER_WIDTH: Int\n val RENDERBUFFER_HEIGHT: Int\n val RENDERBUFFER_INTERNAL_FORMAT: Int\n val RENDERBUFFER_RED_SIZE: Int\n val RENDERBUFFER_GREEN_SIZE: Int\n val RENDERBUFFER_BLUE_SIZE: Int\n val RENDERBUFFER_ALPHA_SIZE: Int\n val RENDERBUFFER_DEPTH_SIZE: Int\n val RENDERBUFFER_STENCIL_SIZE: Int\n val FRAMEBUFFER_ATTACHMENT_OBJECT_TYPE: Int\n val FRAMEBUFFER_ATTACHMENT_OBJECT_NAME: Int\n val FRAMEBUFFER_ATTACHMENT_TEXTURE_LEVEL: Int\n val FRAMEBUFFER_ATTACHMENT_TEXTURE_CUBE_MAP_FACE: Int\n val COLOR_ATTACHMENT0: Int\n val DEPTH_ATTACHMENT: Int\n val STENCIL_ATTACHMENT: Int\n val DEPTH_STENCIL_ATTACHMENT: Int\n val NONE: Int\n val FRAMEBUFFER_COMPLETE: Int\n val FRAMEBUFFER_INCOMPLETE_ATTACHMENT: Int\n val FRAMEBUFFER_INCOMPLETE_MISSING_ATTACHMENT: Int\n val FRAMEBUFFER_INCOMPLETE_DIMENSIONS: Int\n val FRAMEBUFFER_UNSUPPORTED: Int\n val FRAMEBUFFER_BINDING: Int\n val RENDERBUFFER_BINDING: Int\n val

```
MAX_RENDERBUFFER_SIZE: Int\n        val INVALID_FRAMEBUFFER_OPERATION: Int\n        val
UNPACK_FLIP_Y_WEBGL: Int\n        val UNPACK_PREMULTIPLY_ALPHA_WEBGL: Int\n        val
CONTEXT_LOST_WEBGL: Int\n        val UNPACK_COLORSPACE_CONVERSION_WEBGL: Int\n        val
BROWSER_DEFAULT_WEBGL: Int\n    }\n}\n\n/**\n * Exposes the
 JavaScript [WebGLContextEvent](https://developer.mozilla.org/en/docs/Web/API/WebGLContextEvent) to
Kotlin\n */\npublic external open class WebGLContextEvent(type: String, eventInit: WebGLContextEventInit =
definedExternally) : Event {\n    open val statusMessage: String\n\n    companion object {\n        val NONE: Short\n
    val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n
}\n}\n\npublic external interface WebGLContextEventInit : EventInit {\n    var statusMessage: String? /* = \"\" */\n
    get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline
fun WebGLContextEventInit(statusMessage: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false,
composed: Boolean? = false): WebGLContextEventInit {\n    val o = js(\"({})\")\n    o[\"statusMessage\"] =
statusMessage\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n
    return o\n}\n\n/**\n * Exposes the JavaScript
[ArrayBuffer](https://developer.mozilla.org/en/docs/Web/API/ArrayBuffer) to Kotlin\n */\npublic external open
class ArrayBuffer(length: Int) : BufferDataSource {\n    open val byteLength: Int\n    fun slice(begin: Int, end: Int =
definedExternally): ArrayBuffer\n\n    companion object {\n        fun isView(value: Any?): Boolean\n
}\n}\n\n/**\n * Exposes the JavaScript
[ArrayBufferView](https://developer.mozilla.org/en/docs/Web/API/ArrayBufferView) to Kotlin\n */\npublic
external interface ArrayBufferView : BufferDataSource {\n    val buffer: ArrayBuffer\n    val byteOffset: Int\n    val
byteLength: Int\n}\n\n/**\n * Exposes the JavaScript
[Int8Array](https://developer.mozilla.org/en/docs/Web/API/Int8Array) to Kotlin\n */\npublic external open class
Int8Array : ArrayBufferView {\n    constructor(length: Int)\n    constructor(array: Int8Array)\n    constructor(array:
Array<Byte>)\n    constructor(buffer: ArrayBuffer, byteOffset: Int
 = definedExternally, length: Int = definedExternally)\n    open val length: Int\n    override val buffer: ArrayBuffer\n
 override val byteOffset: Int\n    override val byteLength: Int\n    fun set(array: Int8Array, offset: Int =
definedExternally)\n    fun set(array: Array<Byte>, offset: Int = definedExternally)\n    fun subarray(start: Int, end:
Int): Int8Array\n\n    companion object {\n        val BYTES_PER_ELEMENT: Int\n
}\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Int8Array.get(index: Int): Byte =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Int8Array.set(index: Int, value:
Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint8Array](https://developer.mozilla.org/en/docs/Web/API/Uint8Array) to Kotlin\n */\npublic external open class
Uint8Array : ArrayBufferView {\n    constructor(length: Int)\n    constructor(array: Uint8Array)\n
constructor(array: Array<Byte>)\n    constructor(buffer: ArrayBuffer,
 byteOffset: Int = definedExternally, length: Int = definedExternally)\n    open val length: Int\n    override val buffer:
ArrayBuffer\n    override val byteOffset: Int\n    override val byteLength: Int\n    fun set(array: Uint8Array, offset:
Int = definedExternally)\n    fun set(array: Array<Byte>, offset: Int = definedExternally)\n    fun subarray(start: Int,
end: Int): Uint8Array\n\n    companion object {\n        val BYTES_PER_ELEMENT: Int\n
}\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8Array.get(index: Int): Byte =
asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8Array.set(index: Int, value:
Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript
[Uint8ClampedArray](https://developer.mozilla.org/en/docs/Web/API/Uint8ClampedArray) to Kotlin\n */\npublic
external open class Uint8ClampedArray : ArrayBufferView {\n    constructor(length: Int)\n    constructor(array:
Uint8ClampedArray)\n    constructor(array: Array<Byte>)\n
    constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n    open val
length: Int\n    override val buffer: ArrayBuffer\n    override val byteOffset: Int\n    override val byteLength: Int\n
fun set(array: Uint8ClampedArray, offset: Int = definedExternally)\n    fun set(array: Array<Byte>, offset: Int =
definedExternally)\n    fun subarray(start: Int, end: Int): Uint8ClampedArray\n\n    companion object {\n        val
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BYTES_PER_ELEMENT: Int\n   }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8ClampedArray.get(index: Int): Byte = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint8ClampedArray.set(index: Int, value: Byte) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [Int16Array](https://developer.mozilla.org/en/docs/Web/API/Int16Array) to Kotlin\n */\npublic external open class Int16Array : ArrayBufferView {\n   constructor(length: Int)\n   constructor(array: Int16Array)\n   constructor(array: Array<Short>)\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n   open val length: Int\n   override val buffer: ArrayBuffer\n   override val byteOffset: Int\n   override val byteLength: Int\n   fun set(array: Int16Array, offset: Int = definedExternally)\n   fun set(array: Array<Short>, offset: Int = definedExternally)\n   fun subarray(start: Int, end: Int): Int16Array\n\n   companion object {\n   val BYTES_PER_ELEMENT: Int\n   }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.get(index: Int): Short = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Int16Array.set(index: Int, value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [Uint16Array](https://developer.mozilla.org/en/docs/Web/API/Uint16Array) to Kotlin\n */\npublic external open class Uint16Array : ArrayBufferView {\n   constructor(length: Int)\n   constructor(array: Uint16Array)\n   constructor(array: Array<Short>)\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n   open val length: Int\n   override val buffer: ArrayBuffer\n   override val byteOffset: Int\n   override val byteLength: Int\n   fun set(array: Uint16Array, offset: Int = definedExternally)\n   fun set(array: Array<Short>, offset: Int = definedExternally)\n   fun subarray(start: Int, end: Int): Uint16Array\n\n   companion object {\n   val BYTES_PER_ELEMENT: Int\n   }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.get(index: Int): Short = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint16Array.set(index: Int, value: Short) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [Int32Array](https://developer.mozilla.org/en/docs/Web/API/Int32Array) to Kotlin\n */\npublic external open class Int32Array : ArrayBufferView\n   {\n   constructor(length: Int)\n   constructor(array: Int32Array)\n   constructor(array: Array<Int>)\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n   open val length: Int\n   override val buffer: ArrayBuffer\n   override val byteOffset: Int\n   override val byteLength: Int\n   fun set(array: Int32Array, offset: Int = definedExternally)\n   fun set(array: Array<Int>, offset: Int = definedExternally)\n   fun subarray(start: Int, end: Int): Int32Array\n\n   companion object {\n   val BYTES_PER_ELEMENT: Int\n   }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.get(index: Int): Int = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Int32Array.set(index: Int, value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [Uint32Array](https://developer.mozilla.org/en/docs/Web/API/Uint32Array) to Kotlin\n */\npublic external open class Uint32Array\n   : ArrayBufferView {\n   constructor(length: Int)\n   constructor(array: Uint32Array)\n   constructor(array: Array<Int>)\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n   open val length: Int\n   override val buffer: ArrayBuffer\n   override val byteOffset: Int\n   override val byteLength: Int\n   fun set(array: Uint32Array, offset: Int = definedExternally)\n   fun set(array: Array<Int>, offset: Int = definedExternally)\n   fun subarray(start: Int, end: Int): Uint32Array\n\n   companion object {\n   val BYTES_PER_ELEMENT: Int\n   }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint32Array.get(index: Int): Int = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Uint32Array.set(index: Int, value: Int) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [Float32Array](https://developer.mozilla.org/en/docs/Web/API/Float32Array) to Kotlin\n */\npublic\n external open class Float32Array : ArrayBufferView {\n   constructor(length: Int)\n   constructor(array: Float32Array)\n   constructor(array: Array<Float>)\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n   open val length: Int\n   override val buffer: ArrayBuffer\n   override val byteOffset: Int\n   override val byteLength: Int\n   fun set(array: Float32Array, offset: Int =

definedExternally)\n   fun set(array: Array<Float>, offset: Int = definedExternally)\n   fun subarray(start: Int, end: Int): Float32Array\n\n   companion object {\n   val BYTES_PER_ELEMENT: Int\n   }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.get(index: Int): Float = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Float32Array.set(index: Int, value: Float) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [Float64Array](https://developer.mozilla.org/en/docs/Web/API/Float64Array) to Kotlin\n */\npublic external open class Float64Array : ArrayBufferView {\n   constructor(length: Int)\n   constructor(array: Float64Array)\n   constructor(array: Array<Double>)\n   constructor(buffer: ArrayBuffer, byteOffset: Int = definedExternally, length: Int = definedExternally)\n   open val length: Int\n   override val buffer: ArrayBuffer\n   override val byteOffset: Int\n   override val byteLength: Int\n   fun set(array: Float64Array, offset: Int = definedExternally)\n   fun set(array: Array<Double>, offset: Int = definedExternally)\n   fun subarray(start: Int, end: Int): Float64Array\n\n   companion object {\n   val BYTES_PER_ELEMENT: Int\n   }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.get(index: Int): Double = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Float64Array.set(index: Int, value: Double) { asDynamic()[index] = value }\n\n/**\n * Exposes the JavaScript [DataView](https://developer.mozilla.org/en/docs/Web/API/DataView) to Kotlin\n */\npublic external open class DataView(buffer: ArrayBuffer, byteOffset: Int = definedExternally, byteLength: Int = definedExternally) : ArrayBufferView {\n   override val buffer: ArrayBuffer\n   override val byteOffset: Int\n   override val byteLength: Int\n   fun getInt8(byteOffset: Int): Byte\n   fun getUint8(byteOffset: Int): Byte\n   fun getInt16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n   fun getUint16(byteOffset: Int, littleEndian: Boolean = definedExternally): Short\n   fun getInt32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\n   fun getUint32(byteOffset: Int, littleEndian: Boolean = definedExternally): Int\n   fun getFloat32(byteOffset: Int, littleEndian: Boolean = definedExternally): Float\n   fun getFloat64(byteOffset: Int, littleEndian: Boolean = definedExternally): Double\n   fun setInt8(byteOffset: Int, value: Byte)\n   fun setUint8(byteOffset:
Int, value: Byte)\n   fun setInt16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)\n   fun setUint16(byteOffset: Int, value: Short, littleEndian: Boolean = definedExternally)\n   fun setInt32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)\n   fun setUint32(byteOffset: Int, value: Int, littleEndian: Boolean = definedExternally)\n   fun setFloat32(byteOffset: Int, value: Float, littleEndian: Boolean = definedExternally)\n   fun setFloat64(byteOffset: Int, value: Double, littleEndian: Boolean = definedExternally)\n}\n\npublic external interface BufferDataSource\n\npublic external interface TexImageSource","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.clipboard\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external interface ClipboardEventInit : EventInit {\n   var clipboardData: DataTransfer? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ClipboardEventInit(clipboardData: DataTransfer? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ClipboardEventInit {\n   val o = js(\"({})\")\n   o[\"clipboardData\"] = clipboardData\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"]
= cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [ClipboardEvent](https://developer.mozilla.org/en/docs/Web/API/ClipboardEvent) to Kotlin\n */\npublic external open class ClipboardEvent(type: String, eventInitDict: ClipboardEventInit = definedExternally) : Event {\n   open

val clipboardData: DataTransfer?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [Clipboard](https://developer.mozilla.org/en/docs/Web/API/Clipboard) to Kotlin\n */\npublic external abstract class Clipboard : EventTarget {\n   fun read(): Promise<DataTransfer>\n   fun readText(): Promise<String>\n   fun write(data: DataTransfer): Promise<Unit>\n   fun writeText(data: String): Promise<Unit>\n}\n\npublic external interface ClipboardPermissionDescriptor {\n   var allowWithoutGesture: Boolean? /* = false */\n   get()
 = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ClipboardPermissionDescriptor(allowWithoutGesture: Boolean? = false): ClipboardPermissionDescriptor {\n   val o = js(\"({})\")\n   o[\"allowWithoutGesture\"] = allowWithoutGesture\n   return o\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.css\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport
 org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external abstract class MediaList : ItemArrayLike<String> {\n   open var mediaText: String\n   fun appendMedium(medium: String)\n   fun deleteMedium(medium: String)\n   override fun item(index: Int): String?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun MediaList.get(index: Int): String? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [StyleSheet](https://developer.mozilla.org/en/docs/Web/API/StyleSheet) to Kotlin\n */\npublic external abstract class StyleSheet {\n   open val type: String\n   open val href: String?\n   open val ownerNode: UnionElementOrProcessingInstruction?\n   open val parentStyleSheet: StyleSheet?\n   open val title: String?\n   open val media: MediaList\n   open var disabled: Boolean\n}\n\n/**\n * Exposes the JavaScript [CSSStyleSheet](https://developer.mozilla.org/en/docs/Web/API/CSSStyleSheet)
 to Kotlin\n */\npublic external abstract class CSSStyleSheet : StyleSheet {\n   open val ownerRule: CSSRule?\n   open val cssRules: CSSRuleList\n   fun insertRule(rule: String, index: Int): Int\n   fun deleteRule(index: Int)\n}\n\n/**\n * Exposes the JavaScript [StyleSheetList](https://developer.mozilla.org/en/docs/Web/API/StyleSheetList) to Kotlin\n */\npublic external abstract class StyleSheetList : ItemArrayLike<StyleSheet> {\n   override fun item(index: Int): StyleSheet?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun StyleSheetList.get(index: Int): StyleSheet? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [LinkStyle](https://developer.mozilla.org/en/docs/Web/API/LinkStyle) to Kotlin\n */\npublic external interface LinkStyle {\n   val sheet: StyleSheet?\n   get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript [CSSRuleList](https://developer.mozilla.org/en/docs/Web/API/CSSRuleList) to Kotlin\n */\npublic external abstract class CSSRuleList
 : ItemArrayLike<CSSRule> {\n   override fun item(index: Int): CSSRule?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun CSSRuleList.get(index: Int): CSSRule? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [CSSRule](https://developer.mozilla.org/en/docs/Web/API/CSSRule) to Kotlin\n */\npublic external abstract class CSSRule {\n   open val type: Short\n   open var cssText: String\n   open val parentRule: CSSRule?\n   open val parentStyleSheet: CSSStyleSheet?\n\n   companion object {\n   val STYLE_RULE: Short\n   val CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val MEDIA_RULE: Short\n   val FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val MARGIN_RULE: Short\n   val NAMESPACE_RULE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [CSSStyleRule](https://developer.mozilla.org/en/docs/Web/API/CSSStyleRule) to Kotlin\n */\npublic external

abstract class CSSStyleRule : CSSRule {\n   open var selectorText: String\n
    open val style: CSSStyleDeclaration\n\n   companion object {\n   val STYLE_RULE: Short\n   val
CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val MEDIA_RULE: Short\n   val
FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val MARGIN_RULE: Short\n   val
NAMESPACE_RULE: Short\n   }\n}\n\npublic external abstract class CSSImportRule : CSSRule {\n   open val
href: String\n   open val media: MediaList\n   open val styleSheet: CSSStyleSheet\n\n   companion object {\n
val STYLE_RULE: Short\n   val CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val
MEDIA_RULE: Short\n   val FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val
MARGIN_RULE: Short\n   val NAMESPACE_RULE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[CSSGroupingRule](https://developer.mozilla.org/en/docs/Web/API/CSSGroupingRule) to Kotlin\n */\npublic
external abstract class CSSGroupingRule : CSSRule {\n   open val cssRules:
 CSSRuleList\n   fun insertRule(rule: String, index: Int): Int\n   fun deleteRule(index: Int)\n\n   companion object
{\n   val STYLE_RULE: Short\n   val CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val
MEDIA_RULE: Short\n   val FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val
MARGIN_RULE: Short\n   val NAMESPACE_RULE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[CSSMediaRule](https://developer.mozilla.org/en/docs/Web/API/CSSMediaRule) to Kotlin\n */\npublic external
abstract class CSSMediaRule : CSSGroupingRule {\n   open val media: MediaList\n\n   companion object {\n
val STYLE_RULE: Short\n   val CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val
MEDIA_RULE: Short\n   val FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val
MARGIN_RULE: Short\n   val NAMESPACE_RULE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[CSSPageRule](https://developer.mozilla.org/en/docs/Web/API/CSSPageRule)
 to Kotlin\n */\npublic external abstract class CSSPageRule : CSSGroupingRule {\n   open var selectorText:
String\n   open val style: CSSStyleDeclaration\n\n   companion object {\n   val STYLE_RULE: Short\n   val
CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val MEDIA_RULE: Short\n   val
FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val MARGIN_RULE: Short\n   val
NAMESPACE_RULE: Short\n   }\n}\n\npublic external abstract class CSSMarginRule : CSSRule {\n   open val
name: String\n   open val style: CSSStyleDeclaration\n\n   companion object {\n   val STYLE_RULE: Short\n
  val CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val MEDIA_RULE: Short\n   val
FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val MARGIN_RULE: Short\n   val
NAMESPACE_RULE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[CSSNamespaceRule](https://developer.mozilla.org/en/docs/Web/API/CSSNamespaceRule)
 to Kotlin\n */\npublic external abstract class CSSNamespaceRule : CSSRule {\n   open val namespaceURI:
String\n   open val prefix: String\n\n   companion object {\n   val STYLE_RULE: Short\n   val
CHARSET_RULE: Short\n   val IMPORT_RULE: Short\n   val MEDIA_RULE: Short\n   val
FONT_FACE_RULE: Short\n   val PAGE_RULE: Short\n   val MARGIN_RULE: Short\n   val
NAMESPACE_RULE: Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[CSSStyleDeclaration](https://developer.mozilla.org/en/docs/Web/API/CSSStyleDeclaration) to Kotlin\n */\npublic
external abstract class CSSStyleDeclaration : ItemArrayLike<String> {\n   open var cssText: String\n   open val
parentRule: CSSRule?\n   open var cssFloat: String\n   open var alignContent: String\n   open var alignItems:
String\n   open var alignSelf: String\n   open var animation: String\n   open var animationDelay: String\n   open
var animationDirection: String\n   open var animationDuration: String\n
    open var animationFillMode: String\n   open var animationIterationCount: String\n   open var animationName:
String\n   open var animationPlayState: String\n   open var animationTimingFunction: String\n   open var
backfaceVisibility: String\n   open var background: String\n   open var backgroundAttachment: String\n   open var
backgroundClip: String\n   open var backgroundColor: String\n   open var backgroundImage: String\n   open var
backgroundOrigin: String\n   open var backgroundPosition: String\n   open var backgroundRepeat: String\n   open
var backgroundSize: String\n   open var border: String\n   open var borderBottom: String\n   open var
borderBottomColor: String\n   open var borderBottomLeftRadius: String\n   open var borderBottomRightRadius:

String\n open var borderBottomStyle: String\n open var borderBottomWidth: String\n open var borderCollapse: String\n open var borderColor: String\n open var borderImage: String\n open var borderImageOutset:
String\n open var borderImageRepeat: String\n open var borderImageSlice: String\n open var borderImageSource: String\n open var borderImageWidth: String\n open var borderLeft: String\n open var borderLeftColor: String\n open var borderLeftStyle: String\n open var borderLeftWidth: String\n open var borderRadius: String\n open var borderRight: String\n open var borderRightColor: String\n open var borderRightStyle: String\n open var borderRightWidth: String\n open var borderSpacing: String\n open var borderStyle: String\n open var borderTop: String\n open var borderTopColor: String\n open var borderTopLeftRadius: String\n open var borderTopRightRadius: String\n open var borderTopStyle: String\n open var borderTopWidth: String\n open var borderWidth: String\n open var bottom: String\n open var boxDecorationBreak: String\n open var boxShadow: String\n open var boxSizing: String\n open var breakAfter:
String\n open var breakBefore: String\n open var breakInside: String\n open var captionSide: String\n open var clear: String\n open var clip: String\n open var color: String\n open var columnCount: String\n open var columnFill: String\n open var columnGap: String\n open var columnRule: String\n open var columnRuleColor: String\n open var columnRuleStyle: String\n open var columnRuleWidth: String\n open var columnSpan: String\n open var columnWidth: String\n open var columns: String\n open var content: String\n open var counterIncrement: String\n open var counterReset: String\n open var cursor: String\n open var direction: String\n open var display: String\n open var emptyCells: String\n open var filter: String\n open var flex: String\n open var flexBasis: String\n open var flexDirection: String\n open var flexFlow: String\n open var flexGrow: String\n open var flexShrink: String\n open var flexWrap:
String\n open var font: String\n open var fontFamily: String\n open var fontFeatureSettings: String\n open var fontKerning: String\n open var fontLanguageOverride: String\n open var fontSize: String\n open var fontSizeAdjust: String\n open var fontStretch: String\n open var fontStyle: String\n open var fontSynthesis: String\n open var fontVariant: String\n open var fontVariantAlternates: String\n open var fontVariantCaps: String\n open var fontVariantEastAsian: String\n open var fontVariantLigatures: String\n open var fontVariantNumeric: String\n open var fontVariantPosition: String\n open var fontWeight: String\n open var hangingPunctuation: String\n open var height: String\n open var hyphens: String\n open var imageOrientation: String\n open var imageRendering: String\n open var imageResolution: String\n open var imeMode: String\n open var justifyContent: String\n open var left: String\n open var
letterSpacing: String\n open var lineBreak: String\n open var lineHeight: String\n open var listStyle: String\n open var listStyleImage: String\n open var listStylePosition: String\n open var listStyleType: String\n open var margin: String\n open var marginBottom: String\n open var marginLeft: String\n open var marginRight: String\n open var marginTop: String\n open var mark: String\n open var markAfter: String\n open var markBefore: String\n open var marks: String\n open var marqueeDirection: String\n open var marqueePlayCount: String\n open var marqueeSpeed: String\n open var marqueeStyle: String\n open var mask: String\n open var maskType: String\n open var maxHeight: String\n open var maxWidth: String\n open var minHeight: String\n open var minWidth: String\n open var navDown: String\n open var navIndex: String\n open var navLeft: String\n open var navRight: String\n open var navUp: String\n
open var objectFit: String\n open var objectPosition: String\n open var opacity: String\n open var order: String\n open var orphans: String\n open var outline: String\n open var outlineColor: String\n open var outlineOffset: String\n open var outlineStyle: String\n open var outlineWidth: String\n open var overflowWrap: String\n open var overflowX: String\n open var overflowY: String\n open var padding: String\n open var paddingBottom: String\n open var paddingLeft: String\n open var paddingRight: String\n open var paddingTop: String\n open var pageBreakAfter: String\n open var pageBreakBefore: String\n open var pageBreakInside: String\n open var perspective: String\n open var perspectiveOrigin: String\n open var phonemes: String\n open var position: String\n open var quotes: String\n open var resize: String\n open var

rest: String\n   open var restAfter: String\n   open var restBefore: String\n   open var right: String\n   open var tabSize: String\n   open var tableLayout: String\n   open var textAlign: String\n   open var textAlignLast: String\n   open var textCombineUpright: String\n   open var textDecoration: String\n   open var textDecorationColor: String\n   open var textDecorationLine: String\n   open var textDecorationStyle: String\n   open var textIndent: String\n   open var textJustify: String\n   open var textOrientation: String\n   open var textOverflow: String\n   open var textShadow: String\n   open var textTransform: String\n   open var textUnderlinePosition: String\n   open var top: String\n   open var transform: String\n   open var transformOrigin: String\n   open var transformStyle: String\n   open var transition: String\n   open var transitionDelay: String\n   open var transitionDuration: String\n   open var transitionProperty: String\n   open var transitionTimingFunction: String\n   open var unicodeBidi: String\n   open var verticalAlign: String\n   open var visibility: String\n   open var voiceBalance: String\n   open var voiceDuration: String\n   open var voicePitch: String\n   open var voicePitchRange: String\n   open var voiceRate: String\n   open var voiceStress: String\n   open var voiceVolume: String\n   open var whiteSpace: String\n   open var widows: String\n   open var width: String\n   open var wordBreak: String\n   open var wordSpacing: String\n   open var wordWrap: String\n   open var writingMode: String\n   open var zIndex: String\n   open var _dashed_attribute: String\n   open var _camel_cased_attribute: String\n   open var _webkit_cased_attribute: String\n   fun getPropertyValue(property: String): String\n   fun getPropertyPriority(property: String): String\n   fun setProperty(property: String, value: String, priority: String = definedExternally)\n   fun setPropertyValue(property: String, value: String)\n   fun setPropertyPriority(property: String, priority: String)\n   fun removeProperty(property: String): String\n   override fun item(index: Int): String\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun CSSStyleDeclaration.get(index: Int): String? = asDynamic()[index]\n\npublic external interface ElementCSSInlineStyle {\n   val style: CSSStyleDeclaration\n}\n\n/**\n * Exposes the JavaScript [CSS](https://developer.mozilla.org/en/docs/Web/API/CSS) to Kotlin\n */\npublic external abstract class CSS {\n   companion object {\n   fun escape(ident: String): String\n   }\n}\n\npublic external interface UnionElementOrProcessingInstruction","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.events\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript [UIEvent](https://developer.mozilla.org/en/docs/Web/API/UIEvent) to Kotlin\n */\npublic external open class UIEvent(type: String, eventInitDict: UIEventInit = definedExternally) : Event {\n   open val view: Window?\n   open val detail: Int\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface UIEventInit : EventInit {\n   var view: Window? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n   var detail: Int? /* = 0 */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun UIEventInit(view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): UIEventInit {\n   val o = js(\"({})\")\n   o[\"view\"] = view\n   o[\"detail\"] = detail\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [FocusEvent](https://developer.mozilla.org/en/docs/Web/API/FocusEvent) to Kotlin\n */\npublic external open class FocusEvent(type: String, eventInitDict: FocusEventInit = definedExternally) : UIEvent {\n   open val relatedTarget: EventTarget?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val

AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface FocusEventInit : UIEventInit
{\n var relatedTarget: EventTarget? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun FocusEventInit(relatedTarget: EventTarget? = null, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): FocusEventInit {\n val o = js(\"({})\")\n o[\"relatedTarget\"] = relatedTarget\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [MouseEvent](https://developer.mozilla.org/en/docs/Web/API/MouseEvent) to Kotlin\n */\npublic external open class MouseEvent(type: String, eventInitDict: MouseEventInit = definedExternally) : UIEvent, UnionElementOrMouseEvent {\n open val screenX: Int\n open val screenY: Int\n open val clientX: Int\n open val clientY: Int\n open
val ctrlKey: Boolean\n open val shiftKey: Boolean\n open val altKey: Boolean\n open val metaKey: Boolean\n open val button: Short\n open val buttons: Short\n open val relatedTarget: EventTarget?\n open val region: String?\n open val pageX: Double\n open val pageY: Double\n open val x: Double\n open val y: Double\n open val offsetX: Double\n open val offsetY: Double\n fun getModifierState(keyArg: String): Boolean\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface MouseEventInit : EventModifierInit {\n var screenX: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var screenY: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var clientX: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n
var clientY: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var button: Short? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var buttons: Short? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var relatedTarget: EventTarget? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n var region: String? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MouseEventInit(screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false,
modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MouseEventInit {\n val o = js(\"({})\")\n o[\"screenX\"] = screenX\n o[\"screenY\"] = screenY\n o[\"clientX\"] = clientX\n o[\"clientY\"] = clientY\n o[\"button\"] = button\n o[\"buttons\"] = buttons\n o[\"relatedTarget\"] = relatedTarget\n o[\"region\"] = region\n o[\"ctrlKey\"] = ctrlKey\n o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] = altKey\n o[\"metaKey\"] = metaKey\n o[\"modifierAltGraph\"] = modifierAltGraph\n o[\"modifierCapsLock\"] = modifierCapsLock\n o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] = modifierFnLock\n o[\"modifierHyper\"]
= modifierHyper\n o[\"modifierNumLock\"] = modifierNumLock\n o[\"modifierScrollLock\"] = modifierScrollLock\n o[\"modifierSuper\"] = modifierSuper\n o[\"modifierSymbol\"] = modifierSymbol\n o[\"modifierSymbolLock\"] = modifierSymbolLock\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\npublic external interface EventModifierInit : UIEventInit {\n var ctrlKey: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var shiftKey: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var altKey: Boolean? /* = false */\n get() =

definedExternally\n set(value) = definedExternally\n var metaKey: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var modifierAltGraph: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var modifierCapsLock: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var modifierFn: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var modifierFnLock: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var modifierHyper: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var modifierNumLock: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var modifierScrollLock: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var modifierSuper: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var modifierSymbol: Boolean? /* = false */\n
get() = definedExternally\n set(value) = definedExternally\n var modifierSymbolLock: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun EventModifierInit(ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): EventModifierInit {\n val o = js(\"({})\")\n o[\"ctrlKey\"] = ctrlKey\n o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] = altKey\n o[\"metaKey\"] = metaKey\n o[\"modifierAltGraph\"] = modifierAltGraph\n o[\"modifierCapsLock\"] = modifierCapsLock\n o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] = modifierFnLock\n o[\"modifierHyper\"] = modifierHyper\n o[\"modifierNumLock\"] = modifierNumLock\n o[\"modifierScrollLock\"] = modifierScrollLock\n o[\"modifierSuper\"] = modifierSuper\n o[\"modifierSymbol\"] = modifierSymbol\n o[\"modifierSymbolLock\"] = modifierSymbolLock\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [WheelEvent](https://developer.mozilla.org/en/docs/Web/API/WheelEvent) to Kotlin\n */\npublic external open class WheelEvent(type: String, eventInitDict: WheelEventInit = definedExternally) : MouseEvent {\n open val deltaX: Double\n open val deltaY: Double\n open val deltaZ: Double\n open val deltaMode: Int\n\n companion object {\n val DOM_DELTA_PIXEL: Int\n val DOM_DELTA_LINE: Int\n val DOM_DELTA_PAGE: Int\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface WheelEventInit : MouseEventInit {\n var deltaX: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n var deltaY: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n var deltaZ: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n var deltaMode: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun WheelEventInit(deltaX: Double? = 0.0, deltaY: Double? = 0.0, deltaZ: Double? = 0.0, deltaMode: Int? = 0, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): WheelEventInit {\n val o = js(\"({})\")\n o[\"deltaX\"] = deltaX\n o[\"deltaY\"] = deltaY\n o[\"deltaZ\"] = deltaZ\n o[\"deltaMode\"] = deltaMode\n o[\"screenX\"] = screenX\n o[\"screenY\"] =

screenY\n o[\"clientX\"] = clientX\n o[\"clientY\"] = clientY\n o[\"button\"] = button\n o[\"buttons\"] = buttons\n o[\"relatedTarget\"] = relatedTarget\n o[\"region\"] = region\n o[\"ctrlKey\"] = ctrlKey\n o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] = altKey\n o[\"metaKey\"] = metaKey\n o[\"modifierAltGraph\"] = modifierAltGraph\n o[\"modifierCapsLock\"] = modifierCapsLock\n o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] = modifierFnLock\n o[\"modifierHyper\"] = modifierHyper\n o[\"modifierNumLock\"] = modifierNumLock\n o[\"modifierScrollLock\"] = modifierScrollLock\n o[\"modifierSuper\"] = modifierSuper\n o[\"modifierSymbol\"] = modifierSymbol\n o[\"modifierSymbolLock\"] = modifierSymbolLock\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [InputEvent](https://developer.mozilla.org/en/docs/Web/API/InputEvent) to Kotlin\n */\npublic external open class InputEvent(type: String, eventInitDict: InputEventInit = definedExternally) : UIEvent {\n open val data: String\n open val isComposing: Boolean\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface InputEventInit : UIEventInit {\n var data: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var isComposing: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun InputEventInit(data: String? = \"\", isComposing: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): InputEventInit {\n val o = js(\"({})\")\n o[\"data\"] = data\n o[\"isComposing\"] = isComposing\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [KeyboardEvent](https://developer.mozilla.org/en/docs/Web/API/KeyboardEvent) to Kotlin\n */\npublic external open class KeyboardEvent(type: String, eventInitDict: KeyboardEventInit = definedExternally) : UIEvent {\n open val key: String\n open val code: String\n open val location: Int\n open val ctrlKey: Boolean\n open val shiftKey: Boolean\n open val altKey: Boolean\n open val metaKey: Boolean\n open val repeat: Boolean\n open val isComposing: Boolean\n open val charCode: Int\n open val keyCode: Int\n open val which: Int\n fun getModifierState(keyArg: String): Boolean\n\n companion object {\n val DOM_KEY_LOCATION_STANDARD: Int\n val DOM_KEY_LOCATION_LEFT: Int\n val DOM_KEY_LOCATION_RIGHT: Int\n val DOM_KEY_LOCATION_NUMPAD: Int\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface KeyboardEventInit : EventModifierInit {\n var key: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var code: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var location: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var repeat: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var isComposing: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun KeyboardEventInit(key: String? = \"\", code: String? = \"\", location: Int? = 0, repeat: Boolean? = false, isComposing: Boolean? = false, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): KeyboardEventInit {\n val o = js(\"({})\")\n o[\"key\"] = key\n o[\"code\"] = code\n o[\"location\"] = location\n o[\"repeat\"] = repeat\n o[\"isComposing\"] = isComposing\n o[\"ctrlKey\"] = ctrlKey\n o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] = altKey\n o[\"metaKey\"] = metaKey\n o[\"modifierAltGraph\"] = modifierAltGraph\n o[\"modifierCapsLock\"] = modifierCapsLock\n o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] =

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modifierFnLock\n    o[\"modifierHyper\"] = modifierHyper\n    o[\"modifierNumLock\"] = modifierNumLock\n    o[\"modifierScrollLock\"] = modifierScrollLock\n    o[\"modifierSuper\"] = modifierSuper\n    o[\"modifierSymbol\"] = modifierSymbol\n    o[\"modifierSymbolLock\"] = modifierSymbolLock\n    o[\"view\"] = view\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [CompositionEvent](https://developer.mozilla.org/en/docs/Web/API/CompositionEvent) to Kotlin\n */\npublic external open class CompositionEvent(type: String, eventInitDict: CompositionEventInit = definedExternally) : UIEvent {\n    open val data: String\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface CompositionEventInit : UIEventInit {\n    var data: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun CompositionEventInit(data: String? = \"\", view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CompositionEventInit {\n    val o = js(\"({})\")\n    o[\"data\"] = data\n    o[\"view\"] = view\n    o[\"detail\"] = detail\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [Event](https://developer.mozilla.org/en/docs/Web/API/Event) to Kotlin\n */\npublic external open class Event(type: String, eventInitDict: EventInit = definedExternally) {\n    open val type: String\n    open val target: EventTarget?\n    open val currentTarget: EventTarget?\n    open val eventPhase: Short\n    open val bubbles: Boolean\n    open val cancelable: Boolean\n    open val defaultPrevented: Boolean\n    open val composed: Boolean\n    open val isTrusted: Boolean\n    open val timeStamp: Number\n    fun composedPath(): Array<EventTarget>\n    fun stopPropagation()\n    fun stopImmediatePropagation()\n    fun preventDefault()\n    fun initEvent(type: String, bubbles: Boolean, cancelable: Boolean)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [EventTarget](https://developer.mozilla.org/en/docs/Web/API/EventTarget) to Kotlin\n */\npublic external abstract class EventTarget {\n    fun addEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally)\n    fun addEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally)\n    fun removeEventListener(type: String, callback: EventListener?, options: dynamic = definedExternally)\n    fun removeEventListener(type: String, callback: ((Event) -> Unit)?, options: dynamic = definedExternally)\n    fun dispatchEvent(event: Event): Boolean\n}\n\n/**\n * Exposes the JavaScript [EventListener](https://developer.mozilla.org/en/docs/Web/API/EventListener) to Kotlin\n */\npublic external interface EventListener {\n    fun handleEvent(event: Event)\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external abstract class HTMLAllCollection {\n    open val length: Int\n    fun item(nameOrIndex: String = definedExternally): UnionElementOrHTMLCollection?\n    fun namedItem(name: String): UnionElementOrHTMLCollection?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLAllCollection.get(index: Int): Element? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLAllCollection.get(name: String): UnionElementOrHTMLCollection? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
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[HTMLFormControlsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLFormControlsCollection) to Kotlin\n */\npublic external abstract class HTMLFormControlsCollection : HTMLCollection\n\n/**\n * Exposes the JavaScript [RadioNodeList](https://developer.mozilla.org/en/docs/Web/API/RadioNodeList) to Kotlin\n */\npublic external abstract class RadioNodeList : NodeList, UnionElementOrRadioNodeList {\n open var value: String\n}\n\n/**\n * Exposes the JavaScript [HTMLOptionsCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionsCollection) to Kotlin\n */\npublic external abstract class HTMLOptionsCollection : HTMLCollection {\n override var length: Int\n open var selectedIndex: Int\n fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)\n fun remove(index: Int)\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLOptionsCollection.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n * Exposes the JavaScript [HTMLElement](https://developer.mozilla.org/en/docs/Web/API/HTMLElement) to Kotlin\n */\npublic external abstract class HTMLElement : Element, GlobalEventHandlers, DocumentAndElementEventHandlers, ElementContentEditable, ElementCSSInlineStyle {\n open var title: String\n open var lang: String\n open var translate: Boolean\n open var dir: String\n open val dataset: DOMStringMap\n open var hidden: Boolean\n open var tabIndex: Int\n open var accessKey: String\n open val accessKeyLabel: String\n open var draggable: Boolean\n open val dropzone: DOMTokenList\n open var contextMenu: HTMLMenuElement?\n open var spellcheck: Boolean\n open var innerText: String\n open val offsetParent: Element?\n open val offsetTop: Int\n open val offsetLeft: Int\n open val offsetWidth: Int\n open val offsetHeight: Int\n fun click()\n fun focus()\n fun blur()\n fun forceSpellCheck()\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLUnknownElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUnknownElement) to Kotlin\n */\npublic external abstract class HTMLUnknownElement : HTMLElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [DOMStringMap](https://developer.mozilla.org/en/docs/Web/API/DOMStringMap) to Kotlin\n */\npublic external abstract class DOMStringMap\n\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMStringMap.get(name: String): String? = asDynamic()[name]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMStringMap.set(name: String, value: String) { asDynamic()[name] = value }\n\n/**\n * Exposes the JavaScript [HTMLHtmlElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHtmlElement) to Kotlin\n */\npublic external abstract class HTMLHtmlElement : HTMLElement {\n open var version:

String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLHeadElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadElement) to Kotlin\n */\npublic external abstract class HTMLHeadElement : HTMLElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTitleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTitleElement) to Kotlin\n */\npublic external abstract class HTMLTitleElement : HTMLElement {\n open var text: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLBaseElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBaseElement) to Kotlin\n */\npublic external abstract class HTMLBaseElement : HTMLElement {\n open var href: String\n open var target: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLLinkElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLinkElement) to Kotlin\n */\npublic external abstract class HTMLLinkElement :\n HTMLElement, LinkStyle {\n open var href: String\n open var crossOrigin: String?\n open var rel: String\n open var `as`: RequestDestination\n open val relList: DOMTokenList\n open var media: String\n open var nonce: String\n open var hreflang: String\n open var type: String\n open val sizes: DOMTokenList\n open

var referrerPolicy: String\n   open var charset: String\n   open var rev: String\n   open var target: String\n   open var scope: String\n   open var workerType: WorkerType\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLMetaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMetaElement) to Kotlin\n */\npublic external abstract class HTMLMetaElement : HTMLElement {\n   open var name: String\n   open var httpEquiv: String\n   open var content: String\n   open var scheme: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLStyleElement](https://developer.mozilla.org/en/docs/Web/API/HTMLStyleElement) to Kotlin\n */\npublic external abstract class HTMLStyleElement : HTMLElement, LinkStyle {\n   open var media: String\n   open var nonce: String\n   open var type: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [HTMLBodyElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBodyElement) to Kotlin\n */\npublic external abstract class HTMLBodyElement : HTMLElement, WindowEventHandlers {\n   open var text: String\n   open var link: String\n   open var vLink: String\n   open var aLink: String\n   open var bgColor: String\n   open var background: String\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript

[HTMLHeadingElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHeadingElement) to Kotlin\n */\npublic external abstract class HTMLHeadingElement : HTMLElement {\n open var align: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE:
Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLParagraphElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParagraphElement) to Kotlin\n */\npublic external abstract class HTMLParagraphElement : HTMLElement {\n open var align: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLHRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLHRElement) to Kotlin\n */\npublic external abstract class HTMLHRElement : HTMLElement {\n open var align: String\n open var color: String\n open var noShade: Boolean\n open var size: String\n
open var width: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLPreElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPreElement) to Kotlin\n */\npublic external abstract class HTMLPreElement : HTMLElement {\n
open var width: Int\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val

DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLQuoteElement](https://developer.mozilla.org/en/docs/Web/API/HTMLQuoteElement) to Kotlin\n */\npublic external abstract class HTMLQuoteElement : HTMLElement {\n open var cite: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLOListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOListElement) to Kotlin\n */\npublic external abstract class HTMLOListElement : HTMLElement {\n open var reversed: Boolean\n open var start: Int\n open var type: String\n open var compact: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLUListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLUListElement) to Kotlin\n */\npublic external abstract class HTMLUListElement : HTMLElement {\n open var compact: Boolean\n open var type: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLLIElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLIElement) to Kotlin\n */\npublic external abstract class HTMLLIElement : HTMLElement {\n open var value: Int\n open var type: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the
 JavaScript [HTMLDListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDListElement) to Kotlin\n
*/\npublic external abstract class HTMLDListElement : HTMLElement {\n    open var compact: Boolean\n\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n
 * Exposes the JavaScript [HTMLDivElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDivElement)
to Kotlin\n */\npublic external abstract class HTMLDivElement : HTMLElement {\n    open var align: String\n\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n
 * Exposes the JavaScript
[HTMLAnchorElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAnchorElement) to Kotlin\n
*/\npublic external abstract class HTMLAnchorElement : HTMLElement, HTMLHyperlinkElementUtils {\n    open
var target: String\n    open var download: String\n    open var ping: String\n    open var rel: String\n    open val
relList: DOMTokenList\n    open var hreflang: String\n    open var type: String\n    open var text: String\n    open
var referrerPolicy: String\n    open var coords: String\n    open var charset: String\n    open var name: String\n
open var rev: String\n    open var shape: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val
 DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLDataElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataElement) to
Kotlin\n */\npublic external abstract class HTMLDataElement : HTMLElement {\n    open var value: String\n\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n
    val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
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DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTimeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTimeElement) to Kotlin\n */\npublic external abstract class HTMLTimeElement : HTMLElement {\n open var dateTime: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLSpanElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSpanElement) to Kotlin\n */\npublic external abstract class HTMLSpanElement : HTMLElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLBRElement](https://developer.mozilla.org/en/docs/Web/API/HTMLBRElement) to Kotlin\n */\npublic external abstract class HTMLBRElement : HTMLElement {\n open var clear: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLHyperlinkElementUtils](https://developer.mozilla.org/en/docs/Web/API/HTMLHyperlinkElementUtils) to Kotlin\n */\npublic external interface HTMLHyperlinkElementUtils {\n var href: String\n val origin: String\n var protocol: String\n var username: String\n var password: String\n var host: String\n var hostname: String\n var port: String\n var pathname: String\n var search: String\n var hash: String\n}\n\n/**\n * Exposes the JavaScript [HTMLModElement](https://developer.mozilla.org/en/docs/Web/API/HTMLModElement) to Kotlin\n */\npublic external abstract class HTMLModElement : HTMLElement {\n open var cite: String\n open var dateTime: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val

DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLPictureElement](https://developer.mozilla.org/en/docs/Web/API/HTMLPictureElement) to Kotlin\n */\npublic external abstract class HTMLPictureElement : HTMLElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLSourceElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSourceElement) to Kotlin\n */\npublic external abstract class HTMLSourceElement : HTMLElement {\n open var src: String\n open var type: String\n open var srcset: String\n open var sizes: String\n open var media: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLImageElement](https://developer.mozilla.org/en/docs/Web/API/HTMLImageElement) to Kotlin\n */\npublic external abstract class HTMLImageElement : HTMLElement, HTMLOrSVGImageElement, TexImageSource {\n open var alt: String\n open var src: String\n open var srcset: String\n open var sizes: String\n open var crossOrigin: String?\n open var useMap: String\n open var isMap: Boolean\n open var width: Int\n open var height: Int\n open val naturalWidth: Int\n open val naturalHeight: Int\n open val complete: Boolean\n open val currentSrc: String\n open var referrerPolicy: String\n open var name: String\n open var lowsrc: String\n open var align: String\n open var hspace: Int\n open var vspace: Int\n open var longDesc: String\n open var border: String\n open val x: Int\n open val y: Int\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLIFrameElement](https://developer.mozilla.org/en/docs/Web/API/HTMLIFrameElement) to Kotlin\n */\npublic external abstract class HTMLIFrameElement : HTMLElement {\n open var src: String\n open var

srcdoc: String\n   open var name: String\n   open
 val sandbox: DOMTokenList\n   open var allowFullscreen: Boolean\n   open var allowUserMedia: Boolean\n
open var width: String\n   open var height: String\n   open var referrerPolicy: String\n   open val
contentDocument: Document?\n   open val contentWindow: Window?\n   open var align: String\n   open var
scrolling: String\n   open var frameBorder: String\n   open var longDesc: String\n   open var marginHeight:
String\n   open var marginWidth: String\n   fun getSVGDocument(): Document?\n\n   companion object {\n
val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val
CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE:
Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val
DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val
DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED:
 Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val
DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[HTMLEmbedElement](https://developer.mozilla.org/en/docs/Web/API/HTMLEmbedElement) to Kotlin\n
*/\npublic external abstract class HTMLEmbedElement : HTMLElement {\n   open var src: String\n   open var
type: String\n   open var width: String\n   open var height: String\n   open var align: String\n   open var name:
String\n   fun getSVGDocument(): Document?\n\n   companion object {\n   val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val
PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE:
 Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val
DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val
DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n
     val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript
[HTMLObjectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLObjectElement) to Kotlin\n
*/\npublic external abstract class HTMLObjectElement : HTMLElement {\n   open var data: String\n   open var
type: String\n   open var typeMustMatch: Boolean\n   open var name: String\n   open var useMap: String\n   open
val form: HTMLFormElement?\n   open var width: String\n   open var height: String\n   open val
contentDocument: Document?\n   open val contentWindow: Window?\n
   open val willValidate: Boolean\n   open val validity: ValidityState\n   open val validationMessage: String\n
open var align: String\n   open var archive: String\n   open var code: String\n   open var declare: Boolean\n   open
var hspace: Int\n   open var standby: String\n   open var vspace: Int\n   open var codeBase: String\n   open var
codeType: String\n   open var border: String\n   fun getSVGDocument(): Document?\n   fun checkValidity():
Boolean\n   fun reportValidity(): Boolean\n   fun setCustomValidity(error: String)\n\n   companion object {\n
val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val
CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE:
Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val
DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val
DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE:
 Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val
DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY:
Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes

the JavaScript [HTMLParamElement](https://developer.mozilla.org/en/docs/Web/API/HTMLParamElement) to Kotlin\n */\npublic external abstract class HTMLParamElement : HTMLElement {\n open var name: String\n open var value: String\n open var type: String\n open var valueType: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n
val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLVideoElement](https://developer.mozilla.org/en/docs/Web/API/HTMLVideoElement) to Kotlin\n */\npublic external abstract class HTMLVideoElement : HTMLMediaElement, CanvasImageSource, TexImageSource {\n open var width: Int\n open var height: Int\n open val videoWidth: Int\n open val videoHeight: Int\n open var poster: String\n open var playsInline: Boolean\n\n companion object {\n val NETWORK_EMPTY: Short\n val NETWORK_IDLE: Short\n val NETWORK_LOADING: Short\n val NETWORK_NO_SOURCE:
Short\n val HAVE_NOTHING: Short\n val HAVE_METADATA: Short\n val HAVE_CURRENT_DATA: Short\n val HAVE_FUTURE_DATA: Short\n val HAVE_ENOUGH_DATA: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLAudioElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAudioElement)
to Kotlin\n */\npublic external abstract class HTMLAudioElement : HTMLMediaElement {\n companion object {\n val NETWORK_EMPTY: Short\n val NETWORK_IDLE: Short\n val NETWORK_LOADING: Short\n val NETWORK_NO_SOURCE: Short\n val HAVE_NOTHING: Short\n val HAVE_METADATA: Short\n val HAVE_CURRENT_DATA: Short\n val HAVE_FUTURE_DATA: Short\n val HAVE_ENOUGH_DATA: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING:
Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n
val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTrackElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTrackElement) to Kotlin\n */\npublic external abstract class HTMLTrackElement : HTMLElement {\n open var kind: String\n open var src: String\n open var srclang: String\n open var label: String\n open var default: Boolean\n open val readyState: Short\n open val track: TextTrack\n\n companion object {\n val NONE: Short\n val LOADING: Short\n

val LOADED: Short\n val ERROR: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLMediaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMediaElement) to Kotlin\n */\npublic external abstract class HTMLMediaElement : HTMLElement {\n open val error: MediaError?\n open var src: String\n open var srcObject: dynamic\n open val currentSrc: String\n open var crossOrigin: String?\n open val networkState: Short\n open var preload: String\n open val buffered: TimeRanges\n open val readyState: Short\n open val seeking: Boolean\n open var currentTime: Double\n open val duration: Double\n open val paused: Boolean\n open var defaultPlaybackRate: Double\n open var playbackRate: Double\n open val played: TimeRanges\n open val seekable: TimeRanges\n open val ended: Boolean\n open var autoplay: Boolean\n open var loop: Boolean\n open var controls: Boolean\n open var volume: Double\n open var muted: Boolean\n open var defaultMuted: Boolean\n open val audioTracks: AudioTrackList\n open val videoTracks: VideoTrackList\n open val textTracks: TextTrackList\n fun load()\n fun canPlayType(type: String): CanPlayTypeResult\n fun fastSeek(time: Double)\n fun getStartDate(): dynamic\n fun play(): Promise<Unit>\n fun pause()\n fun addTextTrack(kind: TextTrackKind, label: String = definedExternally, language: String = definedExternally): TextTrack\n\n companion object {\n val NETWORK_EMPTY: Short\n val NETWORK_IDLE: Short\n val NETWORK_LOADING: Short\n val NETWORK_NO_SOURCE: Short\n val HAVE_NOTHING: Short\n val HAVE_METADATA: Short\n val HAVE_CURRENT_DATA: Short\n val HAVE_FUTURE_DATA: Short\n val HAVE_ENOUGH_DATA: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [MediaError](https://developer.mozilla.org/en/docs/Web/API/MediaError) to Kotlin\n */\npublic external abstract class MediaError {\n open val code: Short\n\n companion object {\n val MEDIA_ERR_ABORTED: Short\n val MEDIA_ERR_NETWORK: Short\n val MEDIA_ERR_DECODE: Short\n val MEDIA_ERR_SRC_NOT_SUPPORTED: Short\n }\n}\n\n/**\n * Exposes the JavaScript [AudioTrackList](https://developer.mozilla.org/en/docs/Web/API/AudioTrackList) to Kotlin\n */\npublic external abstract class AudioTrackList : EventTarget {\n open val length: Int\n open var onchange: ((Event) -> dynamic)?\n open var onaddtrack: ((TrackEvent) -> dynamic)?\n open var onremovetrack: ((TrackEvent) -> dynamic)?\n fun getTrackById(id: String): AudioTrack?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun AudioTrackList.get(index: Int): AudioTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [AudioTrack](https://developer.mozilla.org/en/docs/Web/API/AudioTrack) to Kotlin\n */\npublic external abstract class AudioTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n open val id:

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String\n    open val kind: String\n    open val label: String\n    open val language: String\n    open var enabled: Boolean\n}\n\n/**\n * Exposes the JavaScript [VideoTrackList](https://developer.mozilla.org/en/docs/Web/API/VideoTrackList) to Kotlin\n */\npublic external abstract class VideoTrackList : EventTarget {\n    open val length: Int\n    open val selectedIndex: Int\n    open var onchange: ((Event) -> dynamic)?\n    open var onaddtrack: ((TrackEvent) -> dynamic)?\n    open var onremovetrack: ((TrackEvent) -> dynamic)?\n    fun getTrackById(id: String): VideoTrack?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun VideoTrackList.get(index: Int): VideoTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [VideoTrack](https://developer.mozilla.org/en/docs/Web/API/VideoTrack) to Kotlin\n */\npublic external abstract class VideoTrack : UnionAudioTrackOrTextTrackOrVideoTrack {\n    open val id: String\n    open val kind: String\n    open val label: String\n    open val language: String\n    open var selected: Boolean\n}\n\npublic external abstract class TextTrackList : EventTarget {\n    open val length: Int\n    open var onchange: ((Event) -> dynamic)?\n    open var onaddtrack: ((TrackEvent) -> dynamic)?\n    open var onremovetrack: ((TrackEvent) -> dynamic)?\n    fun getTrackById(id: String): TextTrack?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun TextTrackList.get(index: Int): TextTrack? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [TextTrack](https://developer.mozilla.org/en/docs/Web/API/TextTrack) to Kotlin\n */\npublic external abstract class TextTrack : EventTarget, UnionAudioTrackOrTextTrackOrVideoTrack {\n    open val kind: TextTrackKind\n    open val label: String\n    open val language: String\n    open val id: String\n    open val inBandMetadataTrackDispatchType: String\n    open var mode: TextTrackMode\n    open val cues: TextTrackCueList?\n    open val activeCues: TextTrackCueList?\n    open var oncuechange: ((Event) -> dynamic)?\n    fun addCue(cue: TextTrackCue)\n    fun removeCue(cue: TextTrackCue)\n}\n\npublic external abstract class TextTrackCueList {\n    open val length: Int\n    fun getCueById(id: String): TextTrackCue?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun TextTrackCueList.get(index: Int): TextTrackCue? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [TextTrackCue](https://developer.mozilla.org/en/docs/Web/API/TextTrackCue) to Kotlin\n */\npublic external abstract class TextTrackCue : EventTarget {\n    open val track: TextTrack?\n    open var id: String\n    open var startTime: Double\n    open var endTime: Double\n    open var pauseOnExit: Boolean\n    open var onenter: ((Event) -> dynamic)?\n    open var onexit: ((Event) -> dynamic)?\n}\n\n/**\n * Exposes the JavaScript [TimeRanges](https://developer.mozilla.org/en/docs/Web/API/TimeRanges) to Kotlin\n */\npublic external abstract class TimeRanges {\n    open val length: Int\n    fun start(index: Int): Double\n    fun end(index: Int): Double\n}\n\n/**\n * Exposes the JavaScript [TrackEvent](https://developer.mozilla.org/en/docs/Web/API/TrackEvent) to Kotlin\n */\npublic external open class TrackEvent(type: String, eventInitDict: TrackEventInit = definedExternally) : Event {\n    open val track: UnionAudioTrackOrTextTrackOrVideoTrack?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface TrackEventInit : EventInit {\n    var track: UnionAudioTrackOrTextTrackOrVideoTrack? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun TrackEventInit(track: UnionAudioTrackOrTextTrackOrVideoTrack? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): TrackEventInit {\n    val o = js(\"({})\")\n    o[\"track\"] = track\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [HTMLMapElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMapElement) to Kotlin\n */\npublic external abstract class HTMLMapElement : HTMLElement {\n    open var name: String\n    open val areas: HTMLCollection\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
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DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLAreaElement) to Kotlin\n */\npublic external abstract class HTMLAreaElement : HTMLElement, HTMLHyperlinkElementUtils {\n open var alt: String\n open var coords: String\n open var shape: String\n open var target: String\n open var download: String\n open var ping: String\n open var rel: String\n open val relList: DOMTokenList\n open var referrerPolicy: String\n open var noHref: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableElement) to Kotlin\n */\npublic external abstract class HTMLTableElement : HTMLElement {\n open var caption: HTMLTableCaptionElement?\n open var tHead: HTMLTableSectionElement?\n open var tFoot: HTMLTableSectionElement?\n open val tBodies: HTMLCollection\n open val rows: HTMLCollection\n open var align: String\n open var border: String\n open var frame: String\n open var rules: String\n open var summary: String\n open var width: String\n open var bgColor: String\n open var cellPadding: String\n open var cellSpacing: String\n fun createCaption(): HTMLTableCaptionElement\n fun deleteCaption()\n fun createTHead(): HTMLTableSectionElement\n fun deleteTHead()\n fun createTFoot(): HTMLTableSectionElement\n fun deleteTFoot()\n fun createTBody(): HTMLTableSectionElement\n fun insertRow(index: Int = definedExternally): HTMLTableRowElement\n fun deleteRow(index: Int)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableCaptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCaptionElement) to Kotlin\n */\npublic external abstract class HTMLTableCaptionElement : HTMLElement {\n open var align: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val

DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableColElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableColElement) to Kotlin\n */\npublic external abstract class HTMLTableColElement : HTMLElement {\n open var span: Int\n open var align: String\n open var ch: String\n open var chOff: String\n open var vAlign: String\n open var width: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableSectionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableSectionElement) to Kotlin\n */\npublic external abstract class HTMLTableSectionElement : HTMLElement {\n open val rows: HTMLCollection\n open var align: String\n open var ch: String\n open var chOff: String\n open var vAlign: String\n fun insertRow(index: Int = definedExternally): HTMLElement\n fun deleteRow(index: Int)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableRowElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableRowElement) to Kotlin\n */\npublic external abstract class HTMLTableRowElement : HTMLElement {\n open val rowIndex: Int\n open val sectionRowIndex: Int\n open val cells: HTMLCollection\n open var align: String\n open var ch: String\n open var chOff: String\n open var vAlign: String\n open var bgColor: String\n fun insertCell(index: Int = definedExternally): HTMLElement\n fun deleteCell(index: Int)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTableCellElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTableCellElement) to Kotlin\n */\npublic external abstract class HTMLTableCellElement : HTMLElement {\n open var colSpan: Int\n open var rowSpan: Int\n open var headers: String\n open val cellIndex: Int\n open var scope: String\n open var abbr: String\n open var align: String\n open var axis: String\n open var height: String\n open var width:

String\n open var ch: String\n open var chOff: String\n open var noWrap: Boolean\n open var vAlign: String\n open var bgColor: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLFormElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFormElement) to Kotlin\n */\npublic external abstract class HTMLFormElement : HTMLElement {\n open var acceptCharset: String\n open var action: String\n open var autocomplete: String\n open var enctype: String\n open var encoding: String\n open var method: String\n open var name: String\n open var noValidate: Boolean\n open var target: String\n open val elements: HTMLFormControlsCollection\n open val length: Int\n fun submit()\n fun reset()\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLFormElement.get(index: Int): Element? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLFormElement.get(name: String): UnionElementOrRadioNodeList? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [HTMLLabelElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLabelElement) to Kotlin\n */\npublic external abstract class HTMLLabelElement : HTMLElement {\n open val form: HTMLFormElement?\n open var htmlFor: String\n open val control: HTMLElement?\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLInputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLInputElement) to Kotlin\n */\npublic external abstract class HTMLInputElement : HTMLElement {\n open var accept: String\n open var alt: String\n open var autocomplete: String\n open var autofocus: Boolean\n open var defaultChecked: Boolean\n open var checked: Boolean\n open var dirName: String\n open var disabled: Boolean\n open val form: HTMLFormElement?\n open val files: FileList?\n open var formAction: String\n open var formEnctype: String\n open var formMethod: String\n open var formNoValidate: Boolean\n open var formTarget: String\n open var height: Int\n open var indeterminate: Boolean\n open var inputMode:

String\n open val list: HTMLElement?\n open var max: String\n open var maxLength: Int\n open var min: String\n open var minLength: Int\n open var multiple: Boolean\n open var name: String\n open var pattern: String\n open var placeholder: String\n open var readOnly: Boolean\n open var required: Boolean\n open var size: Int\n open var src: String\n open var step: String\n open var type: String\n open var defaultValue: String\n open var value: String\n open var valueAsDate: dynamic\n open var valueAsNumber: Double\n open var width: Int\n open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n open val labels: NodeList\n open var selectionStart: Int?\n open var selectionEnd: Int?\n open var selectionDirection: String?\n open var align: String\n open var useMap: String\n fun stepUp(n: Int = definedExternally)\n fun stepDown(n: Int = definedExternally)\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n fun select()\n fun setRangeText(replacement: String)\n fun setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally)\n fun setSelectionRange(start: Int, end: Int, direction: String = definedExternally)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLButtonElement](https://developer.mozilla.org/en/docs/Web/API/HTMLButtonElement) to Kotlin\n */\npublic external abstract class HTMLButtonElement : HTMLElement {\n open var autofocus: Boolean\n open var disabled: Boolean\n open val form: HTMLFormElement?\n open var formAction: String\n open var formEnctype: String\n open var formMethod: String\n open var formNoValidate: Boolean\n open var formTarget: String\n open var name: String\n open var type: String\n open var value: String\n open var menu: HTMLMenuElement?\n open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n open val labels: NodeList\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLSelectElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSelectElement) to Kotlin\n */\npublic external abstract class HTMLSelectElement : HTMLElement, ItemArrayLike<Element> {\n open var autocomplete: String\n open var autofocus: Boolean\n open var disabled: Boolean\n open val form: HTMLFormElement?\n open var multiple: Boolean\n open var name: String\n open var required: Boolean\n open var size: Int\n open val type: String\n open val options: HTMLOptionsCollection\n override var length: Int\n open val selectedOptions: HTMLCollection\n open var selectedIndex: Int\n open var value: String\n open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n open

val labels: NodeList\n fun namedItem(name: String): HTMLOptionElement?\n fun add(element: UnionHTMLOptGroupElementOrHTMLOptionElement, before: dynamic = definedExternally)\n fun remove(index: Int)\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n override fun item(index: Int): Element?\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLSelectElement.get(index: Int): Element? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLSelectElement.set(index: Int, option: HTMLOptionElement?) { asDynamic()[index] = option }\n\n/**\n * Exposes the JavaScript [HTMLDataListElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDataListElement) to Kotlin\n */\npublic external abstract class HTMLDataListElement : HTMLElement {\n open val options: HTMLCollection\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLOptGroupElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptGroupElement) to Kotlin\n */\npublic external abstract class HTMLOptGroupElement : HTMLElement, UnionHTMLOptGroupElementOrHTMLOptionElement {\n open var disabled: Boolean\n open var label: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLOptionElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOptionElement) to Kotlin\n */\npublic external abstract class HTMLOptionElement : HTMLElement, UnionHTMLOptGroupElementOrHTMLOptionElement {\n open var disabled: Boolean\n open val form: HTMLFormElement?\n open var label: String\n open var defaultSelected: Boolean\n open var selected: Boolean\n open var value: String\n open var text: String\n open val index: Int\n\n companion object {\n

val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLTextAreaElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTextAreaElement) to Kotlin\n */\npublic external abstract class HTMLTextAreaElement : HTMLElement {\n open var autocomplete: String\n open var autofocus: Boolean\n open var cols: Int\n open var dirName: String\n open var disabled: Boolean\n open val form: HTMLFormElement?\n open var inputMode: String\n open var maxLength: Int\n open var minLength: Int\n open var name: String\n open var placeholder: String\n open var readOnly: Boolean\n open var required: Boolean\n open var rows: Int\n open var wrap: String\n open val type: String\n open var defaultValue: String\n open var value: String\n open val textLength: Int\n open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n open val labels: NodeList\n open var selectionStart: Int?\n open var selectionEnd: Int?\n open var selectionDirection: String?\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n fun select()\n fun setRangeText(replacement: String)\n fun setRangeText(replacement: String, start: Int, end: Int, selectionMode: SelectionMode = definedExternally)\n fun setSelectionRange(start: Int, end: Int, direction: String = definedExternally)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLKeygenElement](https://developer.mozilla.org/en/docs/Web/API/HTMLKeygenElement) to Kotlin\n */\npublic external abstract class HTMLKeygenElement : HTMLElement {\n open var autofocus: Boolean\n open var challenge: String\n open var disabled: Boolean\n open val form: HTMLFormElement?\n open var keytype: String\n open var name: String\n open val type: String\n open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n open val labels: NodeList\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLOutputElement](https://developer.mozilla.org/en/docs/Web/API/HTMLOutputElement) to

Kotlin\n */\npublic external abstract class HTMLOutputElement : HTMLElement {\n open val htmlFor: DOMTokenList\n open val form: HTMLFormElement?\n open var name: String\n open val type: String\n open var defaultValue: String\n open var value: String\n open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n open val labels: NodeList\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLProgressElement](https://developer.mozilla.org/en/docs/Web/API/HTMLProgressElement) to Kotlin\n */\npublic external abstract class HTMLProgressElement : HTMLElement {\n open var value: Double\n open var
 max: Double\n open val position: Double\n open val labels: NodeList\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLMeterElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMeterElement) to Kotlin\n */\npublic external abstract class HTMLMeterElement : HTMLElement {\n open var value: Double\n open var min: Double\n open var max: Double\n open var low: Double\n open var high: Double\n open var optimum: Double\n open val labels: NodeList\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
 Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLFieldSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFieldSetElement) to Kotlin\n */\npublic external abstract class HTMLFieldSetElement : HTMLElement {\n open var disabled: Boolean\n open val form: HTMLFormElement?\n open var name: String\n open val type: String\n open val elements: HTMLCollection\n open val willValidate: Boolean\n open val validity: ValidityState\n open val validationMessage: String\n fun checkValidity(): Boolean\n fun reportValidity(): Boolean\n fun setCustomValidity(error: String)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val

ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLLegendElement](https://developer.mozilla.org/en/docs/Web/API/HTMLLegendElement) to Kotlin\n */\npublic external abstract class HTMLLegendElement : HTMLElement {\n open val form: HTMLFormElement?\n open var align: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [ValidityState](https://developer.mozilla.org/en/docs/Web/API/ValidityState) to Kotlin\n */\npublic external abstract class ValidityState {\n open val valueMissing: Boolean\n open val typeMismatch: Boolean\n open val patternMismatch: Boolean\n open val tooLong: Boolean\n open val tooShort: Boolean\n open val rangeUnderflow: Boolean\n open val rangeOverflow: Boolean\n open val stepMismatch: Boolean\n open val badInput: Boolean\n open val customError: Boolean\n open val valid: Boolean\n}\n\n/**\n * Exposes the JavaScript [HTMLDetailsElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDetailsElement) to Kotlin\n */\npublic external abstract class HTMLDetailsElement : HTMLElement {\n open var open: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class HTMLMenuElement : HTMLElement {\n open var type: String\n open var label: String\n open var compact: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract

class HTMLMenuItemElement : HTMLElement {\n open var type: String\n open var label: String\n open var icon: String\n open var disabled: Boolean\n open var checked: Boolean\n open var radiogroup: String\n open var default: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external open class RelatedEvent(type: String, eventInitDict: RelatedEventInit = definedExternally) : Event {\n open val relatedTarget: EventTarget?\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface RelatedEventInit : EventInit {\n var relatedTarget: EventTarget? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun RelatedEventInit(relatedTarget: EventTarget? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): RelatedEventInit {\n val o = js(\"({})\")\n o[\"relatedTarget\"] = relatedTarget\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [HTMLDialogElement](https://developer.mozilla.org/en/docs/Web/API/HTMLDialogElement) to Kotlin\n */\npublic external abstract class HTMLDialogElement : HTMLElement {\n open var open: Boolean\n open var returnValue: String\n fun show(anchor: UnionElementOrMouseEvent = definedExternally)\n fun showModal(anchor: UnionElementOrMouseEvent = definedExternally)\n fun close(returnValue: String = definedExternally)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLScriptElement](https://developer.mozilla.org/en/docs/Web/API/HTMLScriptElement) to Kotlin\n */\npublic external abstract class HTMLScriptElement : HTMLElement, HTMLOrSVGScriptElement {\n open var src: String\n open var type: String\n open var charset: String\n open var async: Boolean\n open var defer: Boolean\n open var crossOrigin: String?\n open var text: String\n open var nonce: String\n open var event: String\n open var htmlFor: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[HTMLTemplateElement](https://developer.mozilla.org/en/docs/Web/API/HTMLTemplateElement) to Kotlin\n
*/\npublic external abstract class HTMLTemplateElement : HTMLElement {\n    open val content:
DocumentFragment\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE:
 Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val
DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [HTMLSlotElement](https://developer.mozilla.org/en/docs/Web/API/HTMLSlotElement) to Kotlin\n
*/\npublic external abstract class HTMLSlotElement : HTMLElement {\n    open var name: String\n    fun
assignedNodes(options: AssignedNodesOptions = definedExternally): Array<Node>\n\n    companion object {\n
val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val
 ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
AssignedNodesOptions {\n    var flatten: Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun AssignedNodesOptions(flatten: Boolean? =
false): AssignedNodesOptions {\n    val o = js(\"({})\")\n    o[\"flatten\"] = flatten\n    return o\n}\n\n/**\n * Exposes
the JavaScript
 [HTMLCanvasElement](https://developer.mozilla.org/en/docs/Web/API/HTMLCanvasElement) to Kotlin\n
*/\npublic external abstract class HTMLCanvasElement : HTMLElement, CanvasImageSource, TexImageSource
{\n    open var width: Int\n    open var height: Int\n    fun getContext(contextId: String, vararg arguments: Any?):
RenderingContext?\n    fun toDataURL(type: String = definedExternally, quality: Any? = definedExternally):
String\n    fun toBlob(_callback: (Blob?) -> Unit, type: String = definedExternally, quality: Any? =
definedExternally)\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE:
Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val
ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val
PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE:
 Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external
interface CanvasRenderingContext2DSettings {\n    var alpha: Boolean? /* = true */\n        get() =
definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
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CanvasRenderingContext2DSettings(alpha: Boolean? = true): CanvasRenderingContext2DSettings {\n val o = js(\"({})\")\n o[\"alpha\"] = alpha\n return o\n}\n\n/**\n * Exposes the JavaScript [CanvasRenderingContext2D](https://developer.mozilla.org/en/docs/Web/API/CanvasRenderingContext2D) to Kotlin\n */\npublic external abstract class CanvasRenderingContext2D : CanvasState, CanvasTransform, CanvasCompositing, CanvasImageSmoothing,
CanvasFillStrokeStyles, CanvasShadowStyles, CanvasFilters, CanvasRect, CanvasDrawPath, CanvasUserInterface, CanvasText, CanvasDrawImage, CanvasHitRegion, CanvasImageData, CanvasPathDrawingStyles, CanvasTextDrawingStyles, CanvasPath, RenderingContext {\n open val canvas: HTMLCanvasElement\n}\n\npublic external interface CanvasState {\n fun save()\n fun restore()\n}\n\npublic external interface CanvasTransform {\n fun scale(x: Double, y: Double)\n fun rotate(angle: Double)\n fun translate(x: Double, y: Double)\n fun transform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double)\n fun getTransform(): DOMMatrix\n fun setTransform(a: Double, b: Double, c: Double, d: Double, e: Double, f: Double)\n fun setTransform(transform: dynamic = definedExternally)\n fun resetTransform()\n}\n\npublic external interface CanvasCompositing {\n var globalAlpha: Double\n var globalCompositeOperation: String\n}\n\npublic external interface CanvasImageSmoothing {\n var imageSmoothingEnabled: Boolean\n var imageSmoothingQuality: ImageSmoothingQuality\n}\n\npublic external interface CanvasFillStrokeStyles {\n var strokeStyle: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var fillStyle: dynamic\n get() = definedExternally\n set(value) = definedExternally\n fun createLinearGradient(x0: Double, y0: Double, x1: Double, y1: Double): CanvasGradient\n fun createRadialGradient(x0: Double, y0: Double, r0: Double, x1: Double, y1: Double, r1: Double): CanvasGradient\n fun createPattern(image: CanvasImageSource, repetition: String): CanvasPattern?\n}\n\npublic external interface CanvasShadowStyles {\n var shadowOffsetX: Double\n var shadowOffsetY: Double\n var shadowBlur: Double\n var shadowColor: String\n}\n\npublic external interface CanvasFilters {\n var filter: String\n}\n\npublic external interface CanvasRect {\n fun clearRect(x: Double, y: Double, w:
Double, h: Double)\n fun fillRect(x: Double, y: Double, w: Double, h: Double)\n fun strokeRect(x: Double, y: Double, w: Double, h: Double)\n}\n\npublic external interface CanvasDrawPath {\n fun beginPath()\n fun fill(fillRule: CanvasFillRule = definedExternally)\n fun fill(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n fun stroke()\n fun stroke(path: Path2D)\n fun clip(fillRule: CanvasFillRule = definedExternally)\n fun clip(path: Path2D, fillRule: CanvasFillRule = definedExternally)\n fun resetClip()\n fun isPointInPath(x: Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n fun isPointInPath(path: Path2D, x: Double, y: Double, fillRule: CanvasFillRule = definedExternally): Boolean\n fun isPointInStroke(x: Double, y: Double): Boolean\n fun isPointInStroke(path: Path2D, x: Double, y: Double): Boolean\n}\n\npublic external interface CanvasUserInterface {\n fun drawFocusIfNeeded(element: Element)\n fun
drawFocusIfNeeded(path: Path2D, element: Element)\n fun scrollPathIntoView()\n fun scrollPathIntoView(path: Path2D)\n}\n\npublic external interface CanvasText {\n fun fillText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)\n fun strokeText(text: String, x: Double, y: Double, maxWidth: Double = definedExternally)\n fun measureText(text: String): TextMetrics\n}\n\npublic external interface CanvasDrawImage {\n fun drawImage(image: CanvasImageSource, dx: Double, dy: Double)\n fun drawImage(image: CanvasImageSource, dx: Double, dy: Double, dw: Double, dh: Double)\n fun drawImage(image: CanvasImageSource, sx: Double, sy: Double, sw: Double, sh: Double, dx: Double, dy: Double, dw: Double, dh: Double)\n}\n\npublic external interface CanvasHitRegion {\n fun addHitRegion(options: HitRegionOptions = definedExternally)\n fun removeHitRegion(id: String)\n fun clearHitRegions()\n}\n\npublic external interface CanvasImageData {\n fun createImageData(sw:
Double, sh: Double): ImageData\n fun createImageData(imagedata: ImageData): ImageData\n fun getImageData(sx: Double, sy: Double, sw: Double, sh: Double): ImageData\n fun putImageData(imagedata: ImageData, dx: Double, dy: Double)\n fun putImageData(imagedata: ImageData, dx: Double, dy: Double, dirtyX:

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Double, dirtyY: Double, dirtyWidth: Double, dirtyHeight: Double)\n}\n\npublic external interface CanvasPathDrawingStyles {\n    var lineWidth: Double\n    var lineCap: CanvasLineCap\n    var lineJoin: CanvasLineJoin\n    var miterLimit: Double\n    var lineDashOffset: Double\n    fun setLineDash(segments: Array<Double>)\n    fun getLineDash(): Array<Double>\n}\n\npublic external interface CanvasTextDrawingStyles {\n    var font: String\n    var textAlign: CanvasTextAlign\n    var textBaseline: CanvasTextBaseline\n    var direction: CanvasDirection\n}\n\npublic external interface CanvasPath {\n    fun closePath()\n    fun moveTo(x: Double, y: Double)\n    fun lineTo(x:
 Double, y: Double)\n    fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n    fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n    fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n    fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n    fun rect(x: Double, y: Double, w: Double, h: Double)\n    fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean = definedExternally)\n    fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [CanvasGradient](https://developer.mozilla.org/en/docs/Web/API/CanvasGradient) to Kotlin\n */\npublic external abstract class CanvasGradient {\n    fun addColorStop(offset: Double, color: String)\n}\n\n/**\n * Exposes the JavaScript [CanvasPattern](https://developer.mozilla.org/en/docs/Web/API/CanvasPattern) to Kotlin\n */\npublic external abstract class CanvasPattern {\n    fun setTransform(transform: dynamic = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [TextMetrics](https://developer.mozilla.org/en/docs/Web/API/TextMetrics) to Kotlin\n */\npublic external abstract class TextMetrics {\n    open val width: Double\n    open val actualBoundingBoxLeft: Double\n    open val actualBoundingBoxRight: Double\n    open val fontBoundingBoxAscent: Double\n    open val fontBoundingBoxDescent: Double\n    open val actualBoundingBoxAscent: Double\n    open val actualBoundingBoxDescent: Double\n    open val emHeightAscent: Double\n    open val emHeightDescent: Double\n    open val hangingBaseline: Double\n    open val alphabeticBaseline: Double\n    open val ideographicBaseline: Double\n}\n\npublic external interface HitRegionOptions {\n    var path: Path2D? /* = null */\n        get()
 = definedExternally\n        set(value) = definedExternally\n    var fillRule: CanvasFillRule? /* = CanvasFillRule.NONZERO */\n        get() = definedExternally\n        set(value) = definedExternally\n    var id: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var parentID: String? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n    var cursor: String? /* = \"inherit\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var control: Element? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n    var label: String? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n    var role: String? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun HitRegionOptions(path: Path2D? = null, fillRule: CanvasFillRule?
 = CanvasFillRule.NONZERO, id: String? = \"\", parentID: String? = null, cursor: String? = \"inherit\", control: Element? = null, label: String? = null, role: String? = null): HitRegionOptions {\n    val o = js(\"({})\")\n    o[\"path\"] = path\n    o[\"fillRule\"] = fillRule\n    o[\"id\"] = id\n    o[\"parentID\"] = parentID\n    o[\"cursor\"] = cursor\n    o[\"control\"] = control\n    o[\"label\"] = label\n    o[\"role\"] = role\n    return o\n}\n\n/**\n * Exposes the JavaScript [ImageData](https://developer.mozilla.org/en/docs/Web/API/ImageData) to Kotlin\n */\npublic external open class ImageData : ImageBitmapSource, TexImageSource {\n    constructor(sw: Int, sh: Int)\n    constructor(data: Uint8ClampedArray, sw: Int, sh: Int = definedExternally)\n    open val width: Int\n    open val height: Int\n    open val data: Uint8ClampedArray\n}\n\n/**\n * Exposes the JavaScript [Path2D](https://developer.mozilla.org/en/docs/Web/API/Path2D) to Kotlin\n */\npublic external open class Path2D()
 : CanvasPath {\n    constructor(path: Path2D)\n    constructor(paths: Array<Path2D>, fillRule: CanvasFillRule = definedExternally)\n    constructor(d: String)\n    fun addPath(path: Path2D, transform: dynamic =
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definedExternally)\n   override fun closePath()\n   override fun moveTo(x: Double, y: Double)\n   override fun lineTo(x: Double, y: Double)\n   override fun quadraticCurveTo(cpx: Double, cpy: Double, x: Double, y: Double)\n   override fun bezierCurveTo(cp1x: Double, cp1y: Double, cp2x: Double, cp2y: Double, x: Double, y: Double)\n   override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radius: Double)\n   override fun arcTo(x1: Double, y1: Double, x2: Double, y2: Double, radiusX: Double, radiusY: Double, rotation: Double)\n   override fun rect(x: Double, y: Double, w: Double, h: Double)\n   override fun arc(x: Double, y: Double, radius: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */)\n   override fun ellipse(x: Double, y: Double, radiusX: Double, radiusY: Double, rotation: Double, startAngle: Double, endAngle: Double, anticlockwise: Boolean /* = definedExternally */)\n}\n\n/**\n * Exposes the JavaScript [ImageBitmapRenderingContext](https://developer.mozilla.org/en/docs/Web/API/ImageBitmapRenderingContext) to Kotlin\n */\npublic external abstract class ImageBitmapRenderingContext {\n   open val canvas: HTMLCanvasElement\n   fun transferFromImageBitmap(bitmap: ImageBitmap?)\n}\n\npublic external interface ImageBitmapRenderingContextSettings {\n   var alpha: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ImageBitmapRenderingContextSettings(alpha: Boolean? = true): ImageBitmapRenderingContextSettings {\n   val o = js(\"({})\")\n   o[\"alpha\"] = alpha\n   return o\n}\n\n/**\n * Exposes the JavaScript [CustomElementRegistry](https://developer.mozilla.org/en/docs/Web/API/CustomElementRegistry) to Kotlin\n */\npublic external abstract class CustomElementRegistry {\n   fun define(name: String, constructor: () -> dynamic, options: ElementDefinitionOptions = definedExternally)\n   fun get(name: String): Any?\n   fun whenDefined(name: String): Promise<Unit>\n}\n\npublic external interface ElementDefinitionOptions {\n   var extends: String?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ElementDefinitionOptions(extends: String? = undefined): ElementDefinitionOptions {\n   val o = js(\"({})\")\n   o[\"extends\"] = extends\n   return o\n}\n\npublic external interface ElementContentEditable {\n   var contentEditable: String\n   val isContentEditable: Boolean\n}\n\n/**\n * Exposes the JavaScript [DataTransfer](https://developer.mozilla.org/en/docs/Web/API/DataTransfer) to Kotlin\n */\npublic external abstract class DataTransfer {\n   open var dropEffect: String\n   open var effectAllowed: String\n   open val items: DataTransferItemList\n   open val types: Array<out String>\n   open val files: FileList\n   fun setDragImage(image: Element, x: Int, y: Int)\n   fun getData(format: String): String\n   fun setData(format: String, data: String)\n   fun clearData(format: String = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [DataTransferItemList](https://developer.mozilla.org/en/docs/Web/API/DataTransferItemList) to Kotlin\n */\npublic external abstract class DataTransferItemList {\n   open val length: Int\n   fun add(data: String, type: String): DataTransferItem?\n   fun add(data: File): DataTransferItem?\n   fun remove(index: Int)\n   fun clear()\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun DataTransferItemList.get(index: Int): DataTransferItem? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [DataTransferItem](https://developer.mozilla.org/en/docs/Web/API/DataTransferItem) to Kotlin\n */\npublic external abstract class DataTransferItem {\n   open val kind: String\n   open val type: String\n   fun getAsString(_callback: ((String) -> Unit)?)\n   fun getAsFile(): File?\n}\n\n/**\n * Exposes the JavaScript [DragEvent](https://developer.mozilla.org/en/docs/Web/API/DragEvent) to Kotlin\n */\npublic external open class DragEvent(type: String, eventInitDict: DragEventInit = definedExternally) : MouseEvent {\n   open val dataTransfer: DataTransfer?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface DragEventInit : MouseEventInit {\n   var dataTransfer: DataTransfer? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun DragEventInit(dataTransfer: DataTransfer? = null, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0,

relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): DragEventInit {\n val o = js(\"({})\")\n o[\"dataTransfer\"] = dataTransfer\n o[\"screenX\"] = screenX\n o[\"screenY\"] = screenY\n o[\"clientX\"] = clientX\n o[\"clientY\"] = clientY\n o[\"button\"] = button\n o[\"buttons\"] = buttons\n o[\"relatedTarget\"] = relatedTarget\n o[\"region\"] = region\n o[\"ctrlKey\"] = ctrlKey\n o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] = altKey\n o[\"metaKey\"] = metaKey\n o[\"modifierAltGraph\"] = modifierAltGraph\n o[\"modifierCapsLock\"] = modifierCapsLock\n o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] = modifierFnLock\n o[\"modifierHyper\"] = modifierHyper\n o[\"modifierNumLock\"] = modifierNumLock\n o[\"modifierScrollLock\"] = modifierScrollLock\n o[\"modifierSuper\"] = modifierSuper\n o[\"modifierSymbol\"] = modifierSymbol\n o[\"modifierSymbolLock\"] = modifierSymbolLock\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [Window](https://developer.mozilla.org/en/docs/Web/API/Window) to Kotlin\n */\npublic external abstract class Window : EventTarget, GlobalEventHandlers, WindowEventHandlers, WindowOrWorkerGlobalScope, WindowSessionStorage, WindowLocalStorage, GlobalPerformance, UnionMessagePortOrWindowProxy {\n open val window: Window\n open val self: Window\n open val document: Document\n open var name: String\n open val location: Location\n open val history: History\n open val customElements: CustomElementRegistry\n open val locationbar: BarProp\n open val menubar: BarProp\n open val personalbar: BarProp\n open val scrollbars: BarProp\n open val statusbar: BarProp\n open val toolbar: BarProp\n open var status: String\n open val closed: Boolean\n open val frames: Window\n open val length: Int\n open val top: Window\n open var opener: Any?\n open val parent: Window\n open val frameElement: Element?\n open val navigator: Navigator\n open val applicationCache: ApplicationCache\n open val external: External\n open val screen: Screen\n open val innerWidth: Int\n open val innerHeight: Int\n open val scrollX: Double\n open val pageXOffset: Double\n open val scrollY: Double\n open val pageYOffset: Double\n open val screenX: Int\n open val screenY: Int\n open val outerWidth: Int\n open val outerHeight: Int\n open val devicePixelRatio: Double\n fun close()\n fun stop()\n fun focus()\n fun blur()\n fun open(url: String = definedExternally, target: String = definedExternally, features: String = definedExternally): Window?\n fun alert()\n fun alert(message: String)\n fun confirm(message: String = definedExternally): Boolean\n fun prompt(message: String = definedExternally, default: String = definedExternally): String?\n fun print()\n fun requestAnimationFrame(callback: (Double) -> Unit): Int\n fun cancelAnimationFrame(handle: Int)\n fun postMessage(message: Any?, targetOrigin: String, transfer: Array<dynamic> = definedExternally)\n fun captureEvents()\n fun releaseEvents()\n fun matchMedia(query: String): MediaQueryList\n fun moveTo(x: Int, y: Int)\n fun moveBy(x: Int, y: Int)\n fun resizeTo(x: Int, y: Int)\n fun resizeBy(x: Int, y: Int)\n fun scroll(options: ScrollToOptions = definedExternally)\n fun scroll(x: Double, y: Double)\n fun scrollTo(options: ScrollToOptions = definedExternally)\n fun scrollTo(x: Double, y: Double)\n fun scrollBy(options: ScrollToOptions = definedExternally)\n fun scrollBy(x: Double, y: Double)\n fun getComputedStyle(elt: Element, pseudoElt: String? = definedExternally): CSSStyleDeclaration\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Window.get(name: String): dynamic = asDynamic()[name]\n\npublic external abstract class BarProp {\n open val visible: Boolean\n}\n\n/**\n * Exposes the JavaScript [History](https://developer.mozilla.org/en/docs/Web/API/History) to Kotlin\n */\npublic external abstract class History {\n open val length: Int\n open var scrollRestoration: ScrollRestoration\n open val state: Any?\n fun go(delta: Int = definedExternally)\n fun back()\n fun forward()\n

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    fun pushState(data: Any?, title: String, url: String? = definedExternally)\n    fun replaceState(data: Any?, title: String, url: String? = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [Location](https://developer.mozilla.org/en/docs/Web/API/Location) to Kotlin\n */\npublic external abstract class Location {\n    open var href: String\n    open val origin: String\n    open var protocol: String\n    open var host: String\n    open var hostname: String\n    open var port: String\n    open var pathname: String\n    open var search: String\n    open var hash: String\n    open val ancestorOrigins: Array<out String>\n    fun assign(url: String)\n    fun replace(url: String)\n    fun reload()\n}\n\n/**\n * Exposes the JavaScript [PopStateEvent](https://developer.mozilla.org/en/docs/Web/API/PopStateEvent) to Kotlin\n */\npublic external open class PopStateEvent(type: String, eventInitDict: PopStateEventInit = definedExternally) : Event {\n    open val state: Any?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface PopStateEventInit : EventInit {\n    var state: Any? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun PopStateEventInit(state: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PopStateEventInit {\n    val o = js(\"({})\")\n    o[\"state\"] = state\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [HashChangeEvent](https://developer.mozilla.org/en/docs/Web/API/HashChangeEvent) to Kotlin\n */\npublic external open class HashChangeEvent(type: String, eventInitDict: HashChangeEventInit = definedExternally) : Event {\n    open val oldURL: String\n    open val newURL: String\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface HashChangeEventInit : EventInit {\n    var oldURL: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var newURL: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun HashChangeEventInit(oldURL: String? = \"\", newURL: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): HashChangeEventInit {\n    val o = js(\"({})\")\n    o[\"oldURL\"] = oldURL\n    o[\"newURL\"] = newURL\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [PageTransitionEvent](https://developer.mozilla.org/en/docs/Web/API/PageTransitionEvent) to Kotlin\n */\npublic external open class PageTransitionEvent(type: String, eventInitDict: PageTransitionEventInit = definedExternally) : Event {\n    open val persisted: Boolean\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface PageTransitionEventInit : EventInit {\n    var persisted: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun PageTransitionEventInit(persisted: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): PageTransitionEventInit {\n    val o = js(\"({})\")\n    o[\"persisted\"] = persisted\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [BeforeUnloadEvent](https://developer.mozilla.org/en/docs/Web/API/BeforeUnloadEvent) to Kotlin\n */\npublic external open class BeforeUnloadEvent : Event {\n    var returnValue: String\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external abstract class ApplicationCache : EventTarget {\n    open val status: Short\n    open var onchecking: ((Event) -> dynamic)?\n    open var onerror: ((Event) -> dynamic)?\n    open var onnoupdate: ((Event) -> dynamic)?\n    open var ondownloading: ((Event) -> dynamic)?\n    open var onprogress: ((ProgressEvent) -> dynamic)?\n    open var onupdateready: ((Event) -> dynamic)?\n    open var oncached: ((Event) -> dynamic)?\n    open var onobsolete: ((Event) -> dynamic)?\n    fun update()\n    fun abort()\n    fun swapCache()\n\n    companion object {\n        val UNCACHED: Short\n        val
```

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IDLE: Short\n        val CHECKING: Short\n        val DOWNLOADING: Short\n        val UPDATEREADY:
 Short\n        val OBSOLETE: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[NavigatorOnLine](https://developer.mozilla.org/en/docs/Web/API/NavigatorOnLine) to Kotlin\n */\npublic
external interface NavigatorOnLine {\n    val onLine: Boolean\n}\n\n/**\n * Exposes the JavaScript
[ErrorEvent](https://developer.mozilla.org/en/docs/Web/API/ErrorEvent) to Kotlin\n */\npublic external open class
ErrorEvent(type: String, eventInitDict: ErrorEventInit = definedExternally) : Event {\n    open val message: String\n
  open val filename: String\n    open val lineno: Int\n    open val colno: Int\n    open val error: Any?\n\n    companion
object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ErrorEventInit : EventInit {\n    var message:
String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var filename: String? /*
= \"\" */\n
        get() = definedExternally\n        set(value) = definedExternally\n    var lineno: Int? /* = 0 */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var colno: Int? /* = 0 */\n        get() =
definedExternally\n        set(value) = definedExternally\n    var error: Any? /* = null */\n        get() =
definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ErrorEventInit(message: String? = \"\", filename: String? = \"\", lineno: Int? = 0, colno: Int? = 0, error: Any? = null,
bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ErrorEventInit {\n    val o =
js(\"({})\")\n    o[\"message\"] = message\n    o[\"filename\"] = filename\n    o[\"lineno\"] = lineno\n    o[\"colno\"] =
colno\n    o[\"error\"] = error\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] =
composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[PromiseRejectionEvent](https://developer.mozilla.org/en/docs/Web/API/PromiseRejectionEvent)
 to Kotlin\n */\npublic external open class PromiseRejectionEvent(type: String, eventInitDict:
PromiseRejectionEventInit) : Event {\n    open val promise: Promise<Any?>\n    open val reason: Any?\n\n
companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET:
Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface PromiseRejectionEventInit :
EventInit {\n    var promise: Promise<Any?>?\n        get() = definedExternally\n        set(value) =
definedExternally\n    var reason: Any?\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun PromiseRejectionEventInit(promise:
Promise<Any?>?, reason: Any? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed:
Boolean? = false): PromiseRejectionEventInit {\n    val o = js(\"({})\")\n    o[\"promise\"]
 = promise\n    o[\"reason\"] = reason\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[GlobalEventHandlers](https://developer.mozilla.org/en/docs/Web/API/GlobalEventHandlers) to Kotlin\n
*/\npublic external interface GlobalEventHandlers {\n    var onabort: ((Event) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n    var onblur: ((FocusEvent) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n    var oncancel: ((Event) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n    var oncanplay: ((Event) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n    var oncanplaythrough: ((Event) -> dynamic)?\n        get()
= definedExternally\n        set(value) = definedExternally\n    var onchange: ((Event) -> dynamic)?\n        get() =
definedExternally\n
        set(value) = definedExternally\n    var onclick: ((MouseEvent) -> dynamic)?\n        get() = definedExternally\n
    set(value) = definedExternally\n    var onclose: ((Event) -> dynamic)?\n        get() = definedExternally\n
set(value) = definedExternally\n    var oncontextmenu: ((MouseEvent) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n    var oncuechange: ((Event) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n    var ondblclick: ((MouseEvent) -> dynamic)?\n        get()
= definedExternally\n        set(value) = definedExternally\n    var ondrag: ((DragEvent) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n    var ondragend: ((DragEvent) -> dynamic)?\n        get() =
definedExternally\n        set(value) = definedExternally\n    var ondragenter: ((DragEvent) -> dynamic)?\n        get()
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= definedExternally\n set(value) = definedExternally\n var ondragexit: ((DragEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var ondragleave: ((DragEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var ondragover: ((DragEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var ondragstart: ((DragEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var ondrop: ((DragEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var ondurationchange: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onemptied: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onended: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onfocus: ((FocusEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var oninput: ((InputEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var oninvalid: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onkeydown: ((KeyboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onkeypress: ((KeyboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onkeyup: ((KeyboardEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onload: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onloadeddata: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onloadedmetadata: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onloadend: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onloadstart: ((ProgressEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onmousedown: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onmouseenter: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onmouseleave: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onmousemove: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onmouseout: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onmouseover: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onmouseup: ((MouseEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onwheel: ((WheelEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onpause: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onplay: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onplaying: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onprogress: ((ProgressEvent) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onratechange: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onreset: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onresize: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onscroll: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onseeked: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onseeking: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onselect: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onshow: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onstalled: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onsubmit: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var onsuspend: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n var ontimeupdate: ((Event) -> dynamic)?\n

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get() = definedExternally\n        set(value) = definedExternally\n    var ontoggle: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onvolumechange: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onwaiting: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var ongotpointercapture: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onlostpointercapture: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpointerdown: ((PointerEvent) -> dynamic)?\n
    get() = definedExternally\n        set(value) = definedExternally\n    var onpointermove: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpointerup: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpointercancel: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpointerover: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpointerout: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpointerenter: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpointerleave: ((PointerEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n/**\n * Exposes the JavaScript [WindowEventHandlers](https://developer.mozilla.org/en/docs/Web/API/WindowEventHandlers) to Kotlin\n */\npublic external interface WindowEventHandlers {\n    var onafterprint: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onbeforeprint: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onbeforeunload: ((BeforeUnloadEvent) -> String?)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onhashchange: ((HashChangeEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onlanguagechange: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onmessage: ((MessageEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onoffline: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var ononline: ((Event) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpagehide: ((PageTransitionEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpageshow: ((PageTransitionEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpopstate: ((PopStateEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onrejectionhandled: ((Event) -> dynamic)?\n
    get() = definedExternally\n        set(value) = definedExternally\n    var onstorage: ((StorageEvent) -> dynamic)?\n
    get() = definedExternally\n        set(value) = definedExternally\n    var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onunload: ((Event) -> dynamic)?\n        get() = definedExternally\n
    set(value) = definedExternally\n}\n\npublic external interface DocumentAndElementEventHandlers {\n    var oncopy: ((ClipboardEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var oncut: ((ClipboardEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n    var onpaste: ((ClipboardEvent) -> dynamic)?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n/**\n * Exposes the JavaScript [WindowOrWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WindowOrWorkerGlobalScope) to Kotlin\n */\npublic external interface WindowOrWorkerGlobalScope {\n    val origin: String\n    val caches: CacheStorage\n    fun btoa(data: String): String\n    fun atob(data: String): String\n    fun setTimeout(handler: dynamic, timeout: Int = definedExternally, vararg arguments: Any?): Int\n    fun clearTimeout(handle: Int = definedExternally)\n    fun setInterval(handler: dynamic,
    timeout: Int = definedExternally, vararg arguments: Any?): Int\n    fun clearInterval(handle: Int = definedExternally)\n    fun createImageBitmap(image: ImageBitmapSource, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n    fun createImageBitmap(image: ImageBitmapSource, sx: Int, sy: Int, sw: Int, sh: Int, options: ImageBitmapOptions = definedExternally): Promise<ImageBitmap>\n    fun
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fetch(input: dynamic, init: RequestInit = definedExternally): Promise<Response>\n}\n\n/**\n * Exposes the JavaScript [Navigator](https://developer.mozilla.org/en/docs/Web/API/Navigator) to Kotlin\n */\npublic external abstract class Navigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorContentUtils, NavigatorCookies, NavigatorPlugins, NavigatorConcurrentHardware {\n    open val clipboard: Clipboard\n    open val mediaDevices: MediaDevices\n    open val maxTouchPoints: Int\n    open val serviceWorker: ServiceWorkerContainer\n    fun getUserMedia(constraints: MediaStreamConstraints,
 successCallback: (MediaStream) -> Unit, errorCallback: (dynamic) -> Unit)\n    fun vibrate(pattern: dynamic): Boolean\n}\n\n/**\n * Exposes the JavaScript [NavigatorID](https://developer.mozilla.org/en/docs/Web/API/NavigatorID) to Kotlin\n */\npublic external interface NavigatorID {\n    val appCodeName: String\n    val appName: String\n    val appVersion: String\n    val platform: String\n    val product: String\n    val productSub: String\n    val userAgent: String\n    val vendor: String\n    val vendorSub: String\n    val oscpu: String\n    fun taintEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript [NavigatorLanguage](https://developer.mozilla.org/en/docs/Web/API/NavigatorLanguage) to Kotlin\n */\npublic external interface NavigatorLanguage {\n    val language: String\n    val languages: Array<out String>\n}\n\npublic external interface NavigatorContentUtils {\n    fun registerProtocolHandler(scheme: String, url: String, title: String)\n    fun registerContentHandler(mimeType:
 String, url: String, title: String)\n    fun isProtocolHandlerRegistered(scheme: String, url: String): String\n    fun isContentHandlerRegistered(mimeType: String, url: String): String\n    fun unregisterProtocolHandler(scheme: String, url: String)\n    fun unregisterContentHandler(mimeType: String, url: String)\n}\n\npublic external interface NavigatorCookies {\n    val cookieEnabled: Boolean\n}\n\n/**\n * Exposes the JavaScript [NavigatorPlugins](https://developer.mozilla.org/en/docs/Web/API/NavigatorPlugins) to Kotlin\n */\npublic external interface NavigatorPlugins {\n    val plugins: PluginArray\n    val mimeTypes: MimeTypeArray\n    fun javaEnabled(): Boolean\n}\n\n/**\n * Exposes the JavaScript [PluginArray](https://developer.mozilla.org/en/docs/Web/API/PluginArray) to Kotlin\n */\npublic external abstract class PluginArray : ItemArrayLike<Plugin> {\n    fun refresh(reload: Boolean = definedExternally)\n    override fun item(index: Int): Plugin?\n    fun namedItem(name:
 String): Plugin?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(index: Int): Plugin? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun PluginArray.get(name: String): Plugin? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [MimeTypeArray](https://developer.mozilla.org/en/docs/Web/API/MimeTypeArray) to Kotlin\n */\npublic external abstract class MimeTypeArray : ItemArrayLike<MimeType> {\n    override fun item(index: Int): MimeType?\n    fun namedItem(name: String): MimeType?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(index: Int): MimeType? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun MimeTypeArray.get(name: String): MimeType? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [Plugin](https://developer.mozilla.org/en/docs/Web/API/Plugin) to Kotlin\n */\npublic external abstract class Plugin : ItemArrayLike<MimeType> {\n    open val name:
 String\n    open val description: String\n    open val filename: String\n    override fun item(index: Int): MimeType?\n    fun namedItem(name: String): MimeType?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(index: Int): MimeType? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Plugin.get(name: String): MimeType? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [MimeType](https://developer.mozilla.org/en/docs/Web/API/MimeType) to Kotlin\n */\npublic external abstract class MimeType {\n    open val type: String\n    open val description: String\n    open val suffixes: String\n    open val enabledPlugin: Plugin\n}\n\n/**\n * Exposes the JavaScript [ImageBitmap](https://developer.mozilla.org/en/docs/Web/API/ImageBitmap) to Kotlin\n */\npublic external abstract class ImageBitmap : CanvasImageSource, TexImageSource {\n    open val width: Int\n    open val height: Int\n    fun close()\n}\n\npublic external interface ImageBitmapOptions
 {\n    var imageOrientation: ImageOrientation? /* = ImageOrientation.NONE */\n        get() = definedExternally\n        set(value) = definedExternally\n    var premultiplyAlpha: PremultiplyAlpha? /* = PremultiplyAlpha.DEFAULT
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/\n get() = definedExternally\n set(value) = definedExternally\n var colorSpaceConversion: ColorSpaceConversion? / = ColorSpaceConversion.DEFAULT */\n get() = definedExternally\n set(value) = definedExternally\n var resizeWidth: Int?\n get() = definedExternally\n set(value) = definedExternally\n var resizeHeight: Int?\n get() = definedExternally\n set(value) = definedExternally\n var resizeQuality: ResizeQuality? /* = ResizeQuality.LOW */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ImageBitmapOptions(imageOrientation: ImageOrientation? = ImageOrientation.NONE, premultiplyAlpha: PremultiplyAlpha? = PremultiplyAlpha.DEFAULT,
colorSpaceConversion: ColorSpaceConversion? = ColorSpaceConversion.DEFAULT, resizeWidth: Int? = undefined, resizeHeight: Int? = undefined, resizeQuality: ResizeQuality? = ResizeQuality.LOW): ImageBitmapOptions {\n val o = js(\"({})\")\n o[\"imageOrientation\"] = imageOrientation\n o[\"premultiplyAlpha\"] = premultiplyAlpha\n o[\"colorSpaceConversion\"] = colorSpaceConversion\n o[\"resizeWidth\"] = resizeWidth\n o[\"resizeHeight\"] = resizeHeight\n o[\"resizeQuality\"] = resizeQuality\n return o\n}\n\n/**\n * Exposes the JavaScript [MessageEvent](https://developer.mozilla.org/en/docs/Web/API/MessageEvent) to Kotlin\n */\npublic external open class MessageEvent(type: String, eventInitDict: MessageEventInit = definedExternally) : Event {\n open val data: Any?\n open val origin: String\n open val lastEventId: String\n open val source: UnionMessagePortOrWindowProxy?\n open val ports: Array<out MessagePort>\n fun initMessageEvent(type: String, bubbles: Boolean, cancelable: Boolean, data: Any?, origin: String, lastEventId: String, source: UnionMessagePortOrWindowProxy?, ports: Array<MessagePort>)\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface MessageEventInit : EventInit {\n var data: Any? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n var origin: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var lastEventId: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var source: UnionMessagePortOrWindowProxy? /* = null */\n get() = definedExternally\n set(value) = definedExternally\n var ports: Array<MessagePort>? /* = arrayOf() */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
inline fun MessageEventInit(data: Any? = null, origin: String? = \"\", lastEventId: String? = \"\", source: UnionMessagePortOrWindowProxy? = null, ports: Array<MessagePort>? = arrayOf(), bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MessageEventInit {\n val o = js(\"({})\")\n o[\"data\"] = data\n o[\"origin\"] = origin\n o[\"lastEventId\"] = lastEventId\n o[\"source\"] = source\n o[\"ports\"] = ports\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [EventSource](https://developer.mozilla.org/en/docs/Web/API/EventSource) to Kotlin\n */\npublic external open class EventSource(url: String, eventSourceInitDict: EventSourceInit = definedExternally) : EventTarget {\n open val url: String\n open val withCredentials: Boolean\n open val readyState: Short\n var onopen: ((Event) -> dynamic)?\n
var onmessage: ((MessageEvent) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n fun close()\n\n companion object {\n val CONNECTING: Short\n val OPEN: Short\n val CLOSED: Short\n }\n}\n\npublic external interface EventSourceInit {\n var withCredentials: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun EventSourceInit(withCredentials: Boolean? = false): EventSourceInit {\n val o = js(\"({})\")\n o[\"withCredentials\"] = withCredentials\n return o\n}\n\n/**\n * Exposes the JavaScript [WebSocket](https://developer.mozilla.org/en/docs/Web/API/WebSocket) to Kotlin\n */\npublic external open class WebSocket(url: String, protocols: dynamic = definedExternally) : EventTarget {\n open val url: String\n open val readyState: Short\n open val bufferedAmount: Number\n var onopen: ((Event) -> dynamic)?\n var onerror: ((Event) ->

dynamic)?\n var onclose: ((Event) -> dynamic)?\n open val extensions: String\n open val protocol: String\n var onmessage: ((MessageEvent) -> dynamic)?\n var binaryType: BinaryType\n fun close(code: Short = definedExternally, reason: String = definedExternally)\n fun send(data: String)\n fun send(data: Blob)\n fun send(data: ArrayBuffer)\n fun send(data: ArrayBufferView)\n\n companion object {\n val CONNECTING: Short\n val OPEN: Short\n val CLOSING: Short\n val CLOSED: Short\n }\n}\n\n/**\n * Exposes the JavaScript [CloseEvent](https://developer.mozilla.org/en/docs/Web/API/CloseEvent) to Kotlin\n */\npublic external open class CloseEvent(type: String, eventInitDict: CloseEventInit = definedExternally) : Event {\n open val wasClean: Boolean\n open val code: Short\n open val reason: String\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface CloseEventInit : EventInit {\n var wasClean: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var code: Short? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var reason: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun CloseEventInit(wasClean: Boolean? = false, code: Short? = 0, reason: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CloseEventInit {\n val o = js(\"({})\")\n o[\"wasClean\"] = wasClean\n o[\"code\"] = code\n o[\"reason\"] = reason\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [MessageChannel](https://developer.mozilla.org/en/docs/Web/API/MessageChannel) to Kotlin\n */\npublic external open class MessageChannel {\n open val port1: MessagePort\n open val port2: MessagePort\n}\n\n/**\n * Exposes the JavaScript [MessagePort](https://developer.mozilla.org/en/docs/Web/API/MessagePort) to Kotlin\n */\npublic external abstract class MessagePort : EventTarget, UnionMessagePortOrWindowProxy, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n open var onmessage: ((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n fun start()\n fun close()\n}\n\n/**\n * Exposes the JavaScript [BroadcastChannel](https://developer.mozilla.org/en/docs/Web/API/BroadcastChannel) to Kotlin\n */\npublic external open class BroadcastChannel(name: String) : EventTarget {\n open val name: String\n var onmessage: ((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?)\n fun close()\n}\n\n/**\n * Exposes the JavaScript [WorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/WorkerGlobalScope) to Kotlin\n */\npublic external abstract class WorkerGlobalScope : EventTarget, WindowOrWorkerGlobalScope, GlobalPerformance {\n open val self: WorkerGlobalScope\n open val location: WorkerLocation\n open val navigator: WorkerNavigator\n open var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n open var onlanguagechange: ((Event) -> dynamic)?\n open var onoffline: ((Event) -> dynamic)?\n open var ononline: ((Event) -> dynamic)?\n open var onrejectionhandled: ((Event) -> dynamic)?\n open var onunhandledrejection: ((PromiseRejectionEvent) -> dynamic)?\n fun importScripts(vararg urls: String)\n}\n\n/**\n * Exposes the JavaScript [DedicatedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/DedicatedWorkerGlobalScope) to Kotlin\n */\npublic external abstract class DedicatedWorkerGlobalScope : WorkerGlobalScope {\n open var onmessage: ((MessageEvent) -> dynamic)?\n fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n fun close()\n}\n\n/**\n * Exposes the JavaScript [SharedWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/SharedWorkerGlobalScope) to Kotlin\n */\npublic external abstract class SharedWorkerGlobalScope : WorkerGlobalScope {\n open val name: String\n open val applicationCache: ApplicationCache\n open var onconnect: ((Event) -> dynamic)?\n fun close()\n}\n\n/**\n * Exposes the JavaScript [AbstractWorker](https://developer.mozilla.org/en/docs/Web/API/AbstractWorker) to Kotlin\n */\npublic external interface AbstractWorker {\n var onerror: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n/**\n * Exposes the JavaScript [Worker](https://developer.mozilla.org/en/docs/Web/API/Worker) to Kotlin\n */\npublic external open class

Worker(scriptURL: String, options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n   var onmessage:
 ((MessageEvent) -> dynamic)?\n   override var onerror: ((Event) -> dynamic)?\n   fun terminate()\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\npublic external interface WorkerOptions {\n   var type: WorkerType? /* = WorkerType.CLASSIC */\n   get() = definedExternally\n   set(value) = definedExternally\n   var credentials: RequestCredentials? /* = RequestCredentials.OMIT */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun WorkerOptions(type: WorkerType? = WorkerType.CLASSIC, credentials: RequestCredentials? = RequestCredentials.OMIT): WorkerOptions {\n   val o = js(\"({})\")\n   o[\"type\"] = type\n   o[\"credentials\"] = credentials\n   return o\n}\n\n/**\n * Exposes the JavaScript [SharedWorker](https://developer.mozilla.org/en/docs/Web/API/SharedWorker) to Kotlin\n */\npublic external open class SharedWorker(scriptURL: String, name: String = definedExternally,
 options: WorkerOptions = definedExternally) : EventTarget, AbstractWorker {\n   open val port: MessagePort\n   override var onerror: ((Event) -> dynamic)?\n}\n\n/**\n * Exposes the JavaScript [NavigatorConcurrentHardware](https://developer.mozilla.org/en/docs/Web/API/NavigatorConcurrentHardware) to Kotlin\n */\npublic external interface NavigatorConcurrentHardware {\n   val hardwareConcurrency: Number\n}\n\n/**\n * Exposes the JavaScript [WorkerNavigator](https://developer.mozilla.org/en/docs/Web/API/WorkerNavigator) to Kotlin\n */\npublic external abstract class WorkerNavigator : NavigatorID, NavigatorLanguage, NavigatorOnLine, NavigatorConcurrentHardware {\n   open val serviceWorker: ServiceWorkerContainer\n}\n\n/**\n * Exposes the JavaScript [WorkerLocation](https://developer.mozilla.org/en/docs/Web/API/WorkerLocation) to Kotlin\n */\npublic external abstract class WorkerLocation {\n   open val href: String\n   open val origin: String\n   open val protocol: String\n
    open val host: String\n   open val hostname: String\n   open val port: String\n   open val pathname: String\n   open val search: String\n   open val hash: String\n}\n\n/**\n * Exposes the JavaScript [Storage](https://developer.mozilla.org/en/docs/Web/API/Storage) to Kotlin\n */\npublic external abstract class Storage {\n   open val length: Int\n   fun key(index: Int): String?\n   fun removeItem(key: String)\n   fun clear()\n   fun getItem(key: String): String?\n   fun setItem(key: String, value: String)\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.get(key: String): String? = asDynamic()[key]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun Storage.set(key: String, value: String) { asDynamic()[key] = value }\n\n/**\n * Exposes the JavaScript [WindowSessionStorage](https://developer.mozilla.org/en/docs/Web/API/WindowSessionStorage) to Kotlin\n */\npublic external interface WindowSessionStorage {\n   val sessionStorage: Storage\n}\n\n/**\n
 * Exposes the JavaScript [WindowLocalStorage](https://developer.mozilla.org/en/docs/Web/API/WindowLocalStorage) to Kotlin\n */\npublic external interface WindowLocalStorage {\n   val localStorage: Storage\n}\n\n/**\n * Exposes the JavaScript [StorageEvent](https://developer.mozilla.org/en/docs/Web/API/StorageEvent) to Kotlin\n */\npublic external open class StorageEvent(type: String, eventInitDict: StorageEventInit = definedExternally) : Event {\n   open val key: String?\n   open val oldValue: String?\n   open val newValue: String?\n   open val url: String\n   open val storageArea: Storage?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface StorageEventInit : EventInit {\n   var key: String? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n   var oldValue: String? /* = null */\n   get() =
 definedExternally\n   set(value) = definedExternally\n   var newValue: String? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n   var url: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var storageArea: Storage? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun StorageEventInit(key: String? = null, oldValue: String? = null, newValue: String? = null, url: String? = \"\",

storageArea: Storage? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): StorageEventInit {\n val o = js(\"({})\")\n o[\"key\"] = key\n o[\"oldValue\"] = oldValue\n o[\"newValue\"] = newValue\n o[\"url\"] = url\n o[\"storageArea\"] = storageArea\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\npublic external abstract class HTMLAppletElement : HTMLElement {\n open var align: String\n open var alt: String\n open var archive: String\n open var code: String\n open var codeBase: String\n open var height: String\n open var hspace: Int\n open var name: String\n open var _object: String\n open var vspace: Int\n open var width: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLMarqueeElement](https://developer.mozilla.org/en/docs/Web/API/HTMLMarqueeElement) to Kotlin\n */\npublic external abstract class HTMLMarqueeElement : HTMLElement {\n open var behavior: String\n open var bgColor: String\n open var direction: String\n open var height: String\n open var hspace: Int\n open var loop: Int\n open var scrollAmount: Int\n open var scrollDelay: Int\n open var trueSpeed: Boolean\n open var vspace: Int\n open var width: String\n open var onbounce: ((Event) -> dynamic)?\n open var onfinish: ((Event) -> dynamic)?\n open var onstart: ((Event) -> dynamic)?\n fun start()\n fun stop()\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [HTMLFrameSetElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFrameSetElement) to Kotlin\n */\npublic external abstract class HTMLFrameSetElement : HTMLElement, WindowEventHandlers {\n open var cols: String\n open var rows: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class HTMLFrameElement : HTMLElement {\n open var name: String\n open var scrolling: String\n open var src: String\n open var frameBorder: String\n open var longDesc: String\n open var noResize: Boolean\n open val contentDocument: Document?\n open val

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 contentWindow: Window?\n    open var marginHeight: String\n    open var marginWidth: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external abstract class HTMLDirectoryElement : HTMLElement {\n    open var compact: Boolean\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [HTMLFontElement](https://developer.mozilla.org/en/docs/Web/API/HTMLFontElement) to Kotlin\n */\npublic external abstract class HTMLFontElement : HTMLElement {\n    open var color: String\n    open var face: String\n    open var size: String\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface External {\n    fun AddSearchProvider()\n    fun IsSearchProviderInstalled()\n}\n\npublic external interface EventInit {\n    var bubbles: Boolean?
 /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var cancelable: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n    var composed: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun EventInit(bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): EventInit {\n    val o = js(\"({})\")\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [CustomEvent](https://developer.mozilla.org/en/docs/Web/API/CustomEvent) to Kotlin\n */\npublic external open class CustomEvent(type: String, eventInitDict: CustomEventInit = definedExternally) : Event {\n    open val detail: Any?\n    fun initCustomEvent(type: String, bubbles: Boolean, cancelable: Boolean, detail: Any?)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface CustomEventInit : EventInit {\n    var detail: Any? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun CustomEventInit(detail: Any? = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): CustomEventInit {\n    val o
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= js(\"({})\")\n   o[\"detail\"] = detail\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\npublic external interface EventListenerOptions {\n   var capture: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun EventListenerOptions(capture: Boolean? = false): EventListenerOptions {\n   val o = js(\"({})\")\n   o[\"capture\"] = capture\n   return o\n}\n\npublic external interface AddEventListenerOptions : EventListenerOptions {\n   var passive: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var once: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun AddEventListenerOptions(passive: Boolean? = false, once: Boolean? = false, capture: Boolean? = false): AddEventListenerOptions {\n   val o = js(\"({})\")\n   o[\"passive\"] = passive\n   o[\"once\"] = once\n   o[\"capture\"] = capture\n   return o\n}\n\npublic external interface NonElementParentNode {\n   fun getElementById(elementId: String): Element?\n}\n\n/**\n * Exposes the JavaScript [DocumentOrShadowRoot](https://developer.mozilla.org/en/docs/Web/API/DocumentOrShadowRoot) to Kotlin\n */\npublic external interface DocumentOrShadowRoot {\n   val fullscreenElement: Element?\n   get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript [ParentNode](https://developer.mozilla.org/en/docs/Web/API/ParentNode) to Kotlin\n */\npublic external interface ParentNode {\n   val children: HTMLCollection\n   val firstElementChild: Element?\n   get() = definedExternally\n   val lastElementChild: Element?\n   get() = definedExternally\n   val childElementCount: Int\n   fun prepend(vararg nodes: dynamic)\n   fun append(vararg nodes: dynamic)\n   fun querySelector(selectors: String): Element?\n   fun querySelectorAll(selectors: String): NodeList\n}\n\n/**\n * Exposes the JavaScript [NonDocumentTypeChildNode](https://developer.mozilla.org/en/docs/Web/API/NonDocumentTypeChildNode) to Kotlin\n */\npublic external interface NonDocumentTypeChildNode {\n   val previousElementSibling: Element?\n   get() = definedExternally\n   val nextElementSibling: Element?\n   get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript [ChildNode](https://developer.mozilla.org/en/docs/Web/API/ChildNode) to Kotlin\n */\npublic external interface ChildNode {\n   fun before(vararg nodes: dynamic)\n   fun after(vararg nodes: dynamic)\n   fun replaceWith(vararg nodes: dynamic)\n   fun remove()\n}\n\n/**\n * Exposes the JavaScript [Slotable](https://developer.mozilla.org/en/docs/Web/API/Slotable) to Kotlin\n */\npublic external interface Slotable {\n   val assignedSlot: HTMLSlotElement?\n   get() = definedExternally\n}\n\n/**\n * Exposes the JavaScript [NodeList](https://developer.mozilla.org/en/docs/Web/API/NodeList) to Kotlin\n */\npublic external abstract class NodeList : ItemArrayLike<Node> {\n   override fun item(index: Int): Node?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun NodeList.get(index: Int): Node? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [HTMLCollection](https://developer.mozilla.org/en/docs/Web/API/HTMLCollection) to Kotlin\n */\npublic external abstract class HTMLCollection : ItemArrayLike<Element>, UnionElementOrHTMLCollection {\n   override fun item(index: Int): Element?\n   fun namedItem(name: String): Element?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLCollection.get(index: Int): Element? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun HTMLCollection.get(name: String): Element? = asDynamic()[name]\n\n/**\n * Exposes the JavaScript [MutationObserver](https://developer.mozilla.org/en/docs/Web/API/MutationObserver) to Kotlin\n */\npublic external open class MutationObserver(callback: (Array<MutationRecord>, MutationObserver) -> Unit) {\n   fun observe(target: Node, options: MutationObserverInit = definedExternally)\n   fun disconnect()\n   fun takeRecords(): Array<MutationRecord>\n}\n\n/**\n * Exposes the JavaScript [MutationObserverInit](https://developer.mozilla.org/en/docs/Web/API/MutationObserverInit) to Kotlin\n */\npublic external interface MutationObserverInit {\n   var childList: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var attributes: Boolean?\n   get() = definedExternally\n   set(value) = definedExternally\n   var characterData: Boolean?\n   get() = definedExternally\n   set(value) = definedExternally\n   var subtree: Boolean? /* = false */\n   get() =

definedExternally\n set(value) = definedExternally\n var attributeOldValue: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var characterDataOldValue: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var attributeFilter: Array<String>?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MutationObserverInit(childList: Boolean? = false, attributes: Boolean? = undefined, characterData: Boolean? = undefined, subtree: Boolean? = false, attributeOldValue: Boolean? = undefined, characterDataOldValue: Boolean? = undefined, attributeFilter: Array<String>? = undefined): MutationObserverInit {\n val o = js(\"({})\")\n o[\"childList\"] = childList\n o[\"attributes\"] = attributes\n o[\"characterData\"] = characterData\n o[\"subtree\"] = subtree\n o[\"attributeOldValue\"] = attributeOldValue\n o[\"characterDataOldValue\"] = characterDataOldValue\n o[\"attributeFilter\"] = attributeFilter\n return o\n}\n\n/**\n * Exposes the JavaScript [MutationRecord](https://developer.mozilla.org/en/docs/Web/API/MutationRecord) to Kotlin\n */\npublic external abstract class MutationRecord {\n open val type: String\n open val target: Node\n open val addedNodes: NodeList\n open val removedNodes: NodeList\n open val previousSibling: Node?\n open val nextSibling: Node?\n open val attributeName: String?\n open val attributeNamespace: String?\n open val oldValue: String?\n}\n\n/**\n * Exposes the JavaScript [Node](https://developer.mozilla.org/en/docs/Web/API/Node) to Kotlin\n */\npublic external abstract class Node : EventTarget {\n open val nodeType: Short\n open val nodeName: String\n open val baseURI: String\n open val isConnected: Boolean\n open val ownerDocument: Document?\n open val parentNode: Node?\n open val parentElement: Element?\n open val childNodes: NodeList\n open val firstChild: Node?\n open val lastChild: Node?\n open val previousSibling: Node?\n open val nextSibling: Node?\n open var nodeValue: String?\n open var textContent: String?\n fun getRootNode(options: GetRootNodeOptions = definedExternally): Node\n fun hasChildNodes(): Boolean\n fun normalize()\n fun cloneNode(deep: Boolean = definedExternally): Node\n fun isEqualNode(otherNode: Node?): Boolean\n fun isSameNode(otherNode: Node?): Boolean\n fun compareDocumentPosition(other: Node): Short\n fun contains(other: Node?): Boolean\n fun lookupPrefix(namespace: String?): String?\n fun lookupNamespaceURI(prefix: String?): String?\n fun isDefaultNamespace(namespace: String?): Boolean\n fun insertBefore(node: Node, child: Node?): Node\n fun appendChild(node: Node): Node\n fun replaceChild(node: Node, child: Node): Node\n fun removeChild(child: Node): Node\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface GetRootNodeOptions {\n var composed: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun GetRootNodeOptions(composed: Boolean? = false): GetRootNodeOptions {\n val o = js(\"({})\")\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [Document](https://developer.mozilla.org/en/docs/Web/API/Document) to Kotlin\n */\npublic external open class Document : Node, GlobalEventHandlers, DocumentAndElementEventHandlers, NonElementParentNode, DocumentOrShadowRoot, ParentNode, GeometryUtils {\n open val implementation: DOMImplementation\n open val URL: String\n open val documentURI: String\n open val origin: String\n open val compatMode: String\n open val characterSet: String\n open val charset: String\n open val inputEncoding: String\n open val contentType: String\n open val doctype: DocumentType?\n open val documentElement: Element?\n open val location: Location?\n var domain: String\n open val referrer: String\n var cookie: String\n open val

lastModified: String\n open val readyState: DocumentReadyState\n var title: String\n var dir: String\n var body: HTMLElement?\n open val head: HTMLHeadElement?\n open val images: HTMLCollection\n open val embeds: HTMLCollection\n open val plugins: HTMLCollection\n open val links: HTMLCollection\n open val forms: HTMLCollection\n open val scripts: HTMLCollection\n open val currentScript: HTMLOrSVGScriptElement?\n open val defaultView: Window?\n open val activeElement: Element?\n var designMode: String\n var onreadystatechange: ((Event) -> dynamic)?\n var fgColor: String\n var linkColor: String\n var vlinkColor: String\n var alinkColor: String\n var bgColor: String\n open val anchors: HTMLCollection\n open val applets: HTMLCollection\n open val all: HTMLAllCollection\n open val scrollingElement: Element?\n open val styleSheets: StyleSheetList\n open val rootElement: SVGSVGElement?\n open val fullscreenEnabled: Boolean\n open val fullscreen: Boolean\n var onfullscreenchange: ((Event) -> dynamic)?\n var onfullscreenerror: ((Event) -> dynamic)?\n override var onabort: ((Event) -> dynamic)?\n override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel: ((Event) -> dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough: ((Event) -> dynamic)?\n override var onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) -> dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) -> dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) -> dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) -> dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) -> dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) -> dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) -> dynamic)?\n override var ondurationchange: ((Event) -> dynamic)?\n override var onemptied: ((Event) -> dynamic)?\n override var onended: ((Event) -> dynamic)?\n override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n override var oninput: ((InputEvent) -> dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) -> dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\n override var onload: ((Event) -> dynamic)?\n override var onloadeddata: ((Event) -> dynamic)?\n override var onloadedmetadata: ((Event) -> dynamic)?\n override var onloadend: ((Event) -> dynamic)?\n override var onloadstart: ((ProgressEvent) -> dynamic)?\n override var onmousedown: ((MouseEvent) -> dynamic)?\n override var onmouseenter: ((MouseEvent) -> dynamic)?\n override var onmouseleave: ((MouseEvent) -> dynamic)?\n override var onmousemove: ((MouseEvent) -> dynamic)?\n override var onmouseout: ((MouseEvent) -> dynamic)?\n override var onmouseover: ((MouseEvent) -> dynamic)?\n override var onmouseup: ((MouseEvent) -> dynamic)?\n override var onwheel: ((WheelEvent) -> dynamic)?\n override var onpause: ((Event) -> dynamic)?\n override var onplay: ((Event) -> dynamic)?\n override var onplaying: ((Event) -> dynamic)?\n override var onprogress: ((ProgressEvent) -> dynamic)?\n override var onratechange: ((Event) -> dynamic)?\n override var onreset: ((Event) -> dynamic)?\n override var onresize: ((Event) -> dynamic)?\n override var onscroll: ((Event) -> dynamic)?\n override var onseeked: ((Event) -> dynamic)?\n override var onseeking: ((Event) -> dynamic)?\n override var onselect: ((Event) -> dynamic)?\n override var onshow: ((Event) -> dynamic)?\n override var onstalled: ((Event) -> dynamic)?\n override var onsubmit: ((Event) -> dynamic)?\n override var onsuspend: ((Event) -> dynamic)?\n override var ontimeupdate: ((Event) -> dynamic)?\n override var ontoggle: ((Event) -> dynamic)?\n override var onvolumechange: ((Event) -> dynamic)?\n override var onwaiting: ((Event) -> dynamic)?\n override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n override var onlostpointercapture: ((PointerEvent) -> dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove: ((PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) -> dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n

override var oncopy: ((ClipboardEvent) -> dynamic)?\n override var oncut: ((ClipboardEvent) -> dynamic)?\n override var onpaste: ((ClipboardEvent) -> dynamic)?\n override val fullscreenElement: Element?\n override val children: HTMLCollection\n override val firstElementChild: Element?\n override val lastElementChild: Element?\n override val childElementCount: Int\n fun getElementsByTagName(qualifiedName: String): HTMLCollection\n fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n fun getElementsByClassName(classNames: String): HTMLCollection\n fun createElement(localName: String, options: ElementCreationOptions
= definedExternally): Element\n fun createElementNS(namespace: String?, qualifiedName: String, options: ElementCreationOptions = definedExternally): Element\n fun createDocumentFragment(): DocumentFragment\n fun createTextNode(data: String): Text\n fun createCDATASection(data: String): CDATASection\n fun createComment(data: String): Comment\n fun createProcessingInstruction(target: String, data: String): ProcessingInstruction\n fun importNode(node: Node, deep: Boolean = definedExternally): Node\n fun adoptNode(node: Node): Node\n fun createAttribute(localName: String): Attr\n fun createAttributeNS(namespace: String?, qualifiedName: String): Attr\n fun createEvent(`interface`: String): Event\n fun createRange(): Range\n fun createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): NodeIterator\n fun createNodeIterator(root: Node, whatToShow: Int = definedExternally, filter: ((Node)
-> Short)? = definedExternally): NodeIterator\n fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: NodeFilter? = definedExternally): TreeWalker\n fun createTreeWalker(root: Node, whatToShow: Int = definedExternally, filter: ((Node) -> Short)? = definedExternally): TreeWalker\n fun getElementsByName(elementName: String): NodeList\n fun open(type: String = definedExternally, replace: String = definedExternally): Document\n fun open(url: String, name: String, features: String): Window\n fun close()\n fun write(vararg text: String)\n fun writeln(vararg text: String)\n fun hasFocus(): Boolean\n fun execCommand(commandId: String, showUI: Boolean = definedExternally, value: String = definedExternally): Boolean\n fun queryCommandEnabled(commandId: String): Boolean\n fun queryCommandIndeterm(commandId: String): Boolean\n fun queryCommandState(commandId: String): Boolean\n fun queryCommandSupported(commandId: String): Boolean\n
fun queryCommandValue(commandId: String): String\n fun clear()\n fun captureEvents()\n fun releaseEvents()\n fun elementFromPoint(x: Double, y: Double): Element?\n fun elementsFromPoint(x: Double, y: Double): Array<Element>\n fun caretPositionFromPoint(x: Double, y: Double): CaretPosition?\n fun exitFullscreen(): Promise<Unit>\n override fun getElementById(elementId: String): Element?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors: String): NodeList\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally
/): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions / = definedExternally */): DOMPoint\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n

}\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator
fun Document.get(name: String): dynamic = asDynamic()[name]\n\n/**\n * Exposes the JavaScript
[XMLDocument](https://developer.mozilla.org/en/docs/Web/API/XMLDocument) to Kotlin\n */\npublic external
open class XMLDocument : Document {\n companion object {\n val ELEMENT_NODE: Short\n val
ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n }\n}\n\npublic external interface ElementCreationOptions {\n var `is`: String?\n get() =
definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun
ElementCreationOptions(`is`: String? = undefined): ElementCreationOptions {\n val o = js(\"({})\")\n o[\"is\"] =
`is`\n return o\n}\n\n/**\n * Exposes the JavaScript
[DOMImplementation](https://developer.mozilla.org/en/docs/Web/API/DOMImplementation) to Kotlin\n
*/\npublic external abstract class DOMImplementation {\n fun createDocumentType(qualifiedName: String,
publicId: String, systemId: String): DocumentType\n fun createDocument(namespace: String?, qualifiedName:
String, doctype: DocumentType? = definedExternally): XMLDocument\n fun createHTMLDocument(title: String
= definedExternally): Document\n fun hasFeature(): Boolean\n}\n\n/**\n * Exposes the JavaScript
[DocumentType](https://developer.mozilla.org/en/docs/Web/API/DocumentType) to
Kotlin\n */\npublic external abstract class DocumentType : Node, ChildNode {\n open val name: String\n open
val publicId: String\n open val systemId: String\n\n companion object {\n val ELEMENT_NODE: Short\n
val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n
val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val
DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n
val DOCUMENT_POSITION_CONTAINED_BY: Short\n val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript
[DocumentFragment](https://developer.mozilla.org/en/docs/Web/API/DocumentFragment)
to Kotlin\n */\npublic external open class DocumentFragment : Node, NonElementParentNode, ParentNode {\n
override val children: HTMLCollection\n override val firstElementChild: Element?\n override val
lastElementChild: Element?\n override val childElementCount: Int\n override fun getElementById(elementId:
String): Element?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg nodes:
dynamic)\n override fun querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors:
String): NodeList\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE:
Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val
ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val
PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val
DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE:
Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val
DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n
val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[ShadowRoot](https://developer.mozilla.org/en/docs/Web/API/ShadowRoot) to Kotlin\n */\npublic external open
class ShadowRoot : DocumentFragment, DocumentOrShadowRoot {\n    open val mode: ShadowRootMode\n
open val host: Element\n    override val fullscreenElement: Element?\n\n    companion object {\n        val
ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE:
 Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val
DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val
NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val
DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n
val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY:
Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes
the JavaScript [Element](https://developer.mozilla.org/en/docs/Web/API/Element) to Kotlin\n */\npublic external
abstract class Element : Node, ParentNode, NonDocumentTypeChildNode, ChildNode, Slotable, GeometryUtils,
UnionElementOrHTMLCollection, UnionElementOrRadioNodeList, UnionElementOrMouseEvent,
UnionElementOrProcessingInstruction {\n    open val namespaceURI: String?\n    open val prefix: String?\n    open
val localName: String\n    open val tagName: String\n
    open var id: String\n    open var className: String\n    open val classList: DOMTokenList\n    open var slot:
String\n    open val attributes: NamedNodeMap\n    open val shadowRoot: ShadowRoot?\n    open var scrollTop:
Double\n    open var scrollLeft: Double\n    open val scrollWidth: Int\n    open val scrollHeight: Int\n    open val
clientTop: Int\n    open val clientLeft: Int\n    open val clientWidth: Int\n    open val clientHeight: Int\n    open var
innerHTML: String\n    open var outerHTML: String\n    fun hasAttributes(): Boolean\n    fun getAttributeNames():
Array<String>\n    fun getAttribute(qualifiedName: String): String?\n    fun getAttributeNS(namespace: String?,
localName: String): String?\n    fun setAttribute(qualifiedName: String, value: String)\n    fun
setAttributeNS(namespace: String?, qualifiedName: String, value: String)\n    fun removeAttribute(qualifiedName:
String)\n    fun removeAttributeNS(namespace: String?, localName: String)\n    fun hasAttribute(qualifiedName:
 String): Boolean\n    fun hasAttributeNS(namespace: String?, localName: String): Boolean\n    fun
getAttributeNode(qualifiedName: String): Attr?\n    fun getAttributeNodeNS(namespace: String?, localName:
String): Attr?\n    fun setAttributeNode(attr: Attr): Attr?\n    fun setAttributeNodeNS(attr: Attr): Attr?\n    fun
removeAttributeNode(attr: Attr): Attr\n    fun attachShadow(init: ShadowRootInit): ShadowRoot\n    fun
closest(selectors: String): Element?\n    fun matches(selectors: String): Boolean\n    fun
webkitMatchesSelector(selectors: String): Boolean\n    fun getElementsByTagName(qualifiedName: String):
HTMLCollection\n    fun getElementsByTagNameNS(namespace: String?, localName: String): HTMLCollection\n
fun getElementsByClassName(classNames: String): HTMLCollection\n    fun insertAdjacentElement(where: String,
element: Element): Element?\n    fun insertAdjacentText(where: String, data: String)\n    fun getClientRects():
Array<DOMRect>\n    fun getBoundingClientRect():
 DOMRect\n    fun scrollIntoView()\n    fun scrollIntoView(arg: dynamic)\n    fun scroll(options: ScrollToOptions =
definedExternally)\n    fun scroll(x: Double, y: Double)\n    fun scrollTo(options: ScrollToOptions =
definedExternally)\n    fun scrollTo(x: Double, y: Double)\n    fun scrollBy(options: ScrollToOptions =
definedExternally)\n    fun scrollBy(x: Double, y: Double)\n    fun insertAdjacentHTML(position: String, text:
String)\n    fun setPointerCapture(pointerId: Int)\n    fun releasePointerCapture(pointerId: Int)\n    fun
hasPointerCapture(pointerId: Int): Boolean\n    fun requestFullscreen(): Promise<Unit>\n\n    companion object {\n
    val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val
CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE:
Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val
DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE:
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Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface ShadowRootInit {\n var mode: ShadowRootMode?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ShadowRootInit(mode: ShadowRootMode?): ShadowRootInit {\n val o = js(\"({})\")\n o[\"mode\"] = mode\n return o\n}\n\n/**\n * Exposes the JavaScript [NamedNodeMap](https://developer.mozilla.org/en/docs/Web/API/NamedNodeMap) to Kotlin\n */\npublic external abstract class NamedNodeMap : ItemArrayLike<Attr> {\n fun getNamedItemNS(namespace: String?, localName: String): Attr?\n fun setNamedItem(attr: Attr): Attr?\n fun setNamedItemNS(attr: Attr): Attr?\n fun removeNamedItem(qualifiedName: String): Attr\n fun removeNamedItemNS(namespace: String?, localName: String): Attr\n override fun item(index: Int): Attr?\n fun getNamedItem(qualifiedName: String): Attr?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun NamedNodeMap.get(index: Int): Attr? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun NamedNodeMap.get(qualifiedName: String): Attr? = asDynamic()[qualifiedName]\n\n/**\n * Exposes the JavaScript [Attr](https://developer.mozilla.org/en/docs/Web/API/Attr) to Kotlin\n */\npublic external abstract class Attr : Node {\n open val namespaceURI: String?\n open val prefix: String?\n open val localName: String\n open val name: String\n open var value: String\n open val ownerElement: Element?\n open val specified: Boolean\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [CharacterData](https://developer.mozilla.org/en/docs/Web/API/CharacterData) to Kotlin\n */\npublic external abstract class CharacterData : Node, NonDocumentTypeChildNode, ChildNode {\n open var data: String\n open val length: Int\n fun substringData(offset: Int, count: Int): String\n fun appendData(data: String)\n fun insertData(offset: Int, data: String)\n fun deleteData(offset: Int, count: Int)\n fun replaceData(offset: Int, count: Int, data: String)\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [Text](https://developer.mozilla.org/en/docs/Web/API/Text) to Kotlin\n */\npublic external open class Text(data: String = definedExternally) : CharacterData, Slotable, GeometryUtils {\n open val wholeText: String\n override val assignedSlot: HTMLSlotElement?\n override val previousElementSibling: Element?\n override val nextElementSibling: Element?\n fun splitText(offset: Int):

Text\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n override fun before(vararg nodes: dynamic)\n override fun after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [CDATASection](https://developer.mozilla.org/en/docs/Web/API/CDATASection) to Kotlin\n */\npublic external open class CDATASection : Text {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [ProcessingInstruction](https://developer.mozilla.org/en/docs/Web/API/ProcessingInstruction) to Kotlin\n */\npublic external abstract class ProcessingInstruction : CharacterData, LinkStyle, UnionElementOrProcessingInstruction {\n open val target: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [Comment](https://developer.mozilla.org/en/docs/Web/API/Comment) to Kotlin\n */\npublic external open class Comment(data: String = definedExternally) : CharacterData {\n override val previousElementSibling: Element?\n override val nextElementSibling: Element?\n override fun before(vararg nodes: dynamic)\n override fun after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n

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    val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING:
 Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val
DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n
  val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the
JavaScript [Range](https://developer.mozilla.org/en/docs/Web/API/Range) to Kotlin\n */\npublic external open
class Range {\n    open val startContainer: Node\n    open val startOffset: Int\n    open val endContainer: Node\n
open val endOffset: Int\n    open val collapsed: Boolean\n    open val commonAncestorContainer: Node\n    fun
setStart(node: Node, offset: Int)\n    fun setEnd(node: Node, offset: Int)\n    fun setStartBefore(node: Node)\n    fun
setStartAfter(node: Node)\n    fun setEndBefore(node: Node)\n    fun setEndAfter(node: Node)\n    fun
collapse(toStart: Boolean = definedExternally)\n    fun selectNode(node: Node)\n    fun selectNodeContents(node:
Node)\n    fun compareBoundaryPoints(how: Short, sourceRange: Range):
 Short\n    fun deleteContents()\n    fun extractContents(): DocumentFragment\n    fun cloneContents():
DocumentFragment\n    fun insertNode(node: Node)\n    fun surroundContents(newParent: Node)\n    fun
cloneRange(): Range\n    fun detach()\n    fun isPointInRange(node: Node, offset: Int): Boolean\n    fun
comparePoint(node: Node, offset: Int): Short\n    fun intersectsNode(node: Node): Boolean\n    fun getClientRects():
Array<DOMRect>\n    fun getBoundingClientRect(): DOMRect\n    fun createContextualFragment(fragment:
String): DocumentFragment\n\n    companion object {\n        val START_TO_START: Short\n        val
START_TO_END: Short\n        val END_TO_END: Short\n        val END_TO_START: Short\n    }\n}\n\n/**\n *
Exposes the JavaScript [NodeIterator](https://developer.mozilla.org/en/docs/Web/API/NodeIterator) to Kotlin\n
*/\npublic external abstract class NodeIterator {\n    open val root: Node\n    open val referenceNode: Node\n    open
val pointerBeforeReferenceNode: Boolean\n
    open val whatToShow: Int\n    open val filter: NodeFilter?\n    fun nextNode(): Node?\n    fun previousNode():
Node?\n    fun detach()\n}\n\n/**\n * Exposes the JavaScript
[TreeWalker](https://developer.mozilla.org/en/docs/Web/API/TreeWalker) to Kotlin\n */\npublic external abstract
class TreeWalker {\n    open val root: Node\n    open val whatToShow: Int\n    open val filter: NodeFilter?\n    open
var currentNode: Node\n    fun parentNode(): Node?\n    fun firstChild(): Node?\n    fun lastChild(): Node?\n    fun
previousSibling(): Node?\n    fun nextSibling(): Node?\n    fun previousNode(): Node?\n    fun nextNode():
Node?\n}\n\n/**\n * Exposes the JavaScript
[NodeFilter](https://developer.mozilla.org/en/docs/Web/API/NodeFilter) to Kotlin\n
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface NodeFilter {\n
fun acceptNode(node: Node): Short\n\n    companion object {\n        val FILTER_ACCEPT: Short\n        val
FILTER_REJECT: Short\n        val
 FILTER_SKIP: Short\n        val SHOW_ALL: Int\n        val SHOW_ELEMENT: Int\n        val
SHOW_ATTRIBUTE: Int\n        val SHOW_TEXT: Int\n        val SHOW_CDATA_SECTION: Int\n        val
SHOW_ENTITY_REFERENCE: Int\n        val SHOW_ENTITY: Int\n        val
SHOW_PROCESSING_INSTRUCTION: Int\n        val SHOW_COMMENT: Int\n        val SHOW_DOCUMENT:
Int\n        val SHOW_DOCUMENT_TYPE: Int\n        val SHOW_DOCUMENT_FRAGMENT: Int\n        val
SHOW_NOTATION: Int\n    }\n}\n\n/**\n * Exposes the JavaScript
[DOMTokenList](https://developer.mozilla.org/en/docs/Web/API/DOMTokenList) to Kotlin\n */\npublic external
abstract class DOMTokenList : ItemArrayLike<String> {\n    open var value: String\n    fun contains(token: String):
Boolean\n    fun add(vararg tokens: String)\n    fun remove(vararg tokens: String)\n    fun toggle(token: String,
force: Boolean = definedExternally): Boolean\n    fun replace(token: String, newToken: String)\n    fun
supports(token: String): Boolean\n    override fun
 item(index: Int): String?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMTokenList.get(index:
Int): String? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript
[DOMPointReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMPointReadOnly) to Kotlin\n */\npublic
external open class DOMPointReadOnly(x: Double, y: Double, z: Double, w: Double) {\n    open val x: Double\n
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open val y: Double\n open val z: Double\n open val w: Double\n fun matrixTransform(matrix: DOMMatrixReadOnly): DOMPoint\n}\n\n/**\n * Exposes the JavaScript [DOMPoint](https://developer.mozilla.org/en/docs/Web/API/DOMPoint) to Kotlin\n */\npublic external open class DOMPoint : DOMPointReadOnly {\n constructor(point: DOMPointInit)\n constructor(x: Double = definedExternally, y: Double = definedExternally, z: Double = definedExternally, w: Double = definedExternally)\n override var x: Double\n override var y: Double\n override var z: Double\n override var w: Double\n}\n\n/**\n * Exposes the JavaScript [DOMPointInit](https://developer.mozilla.org/en/docs/Web/API/DOMPointInit) to Kotlin\n */\npublic external interface DOMPointInit {\n var x: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n var y: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n var z: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n var w: Double? /* = 1.0 */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun DOMPointInit(x: Double? = 0.0, y: Double? = 0.0, z: Double? = 0.0, w: Double? = 1.0): DOMPointInit {\n val o = js(\"({})\")\n o[\"x\"] = x\n o[\"y\"] = y\n o[\"z\"] = z\n o[\"w\"] = w\n return o\n}\n\n/**\n * Exposes the JavaScript [DOMRect](https://developer.mozilla.org/en/docs/Web/API/DOMRect) to Kotlin\n */\npublic external open
class DOMRect(x: Double = definedExternally, y: Double = definedExternally, width: Double = definedExternally, height: Double = definedExternally) : DOMRectReadOnly {\n override var x: Double\n override var y: Double\n override var width: Double\n override var height: Double\n}\n\n/**\n * Exposes the JavaScript [DOMRectReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMRectReadOnly) to Kotlin\n */\npublic external open class DOMRectReadOnly(x: Double, y: Double, width: Double, height: Double) {\n open val x: Double\n open val y: Double\n open val width: Double\n open val height: Double\n open val top: Double\n open val right: Double\n open val bottom: Double\n open val left: Double\n}\n\npublic external interface DOMRectInit {\n var x: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n var y: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n
var width: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n var height: Double? /* = 0.0 */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun DOMRectInit(x: Double? = 0.0, y: Double? = 0.0, width: Double? = 0.0, height: Double? = 0.0): DOMRectInit {\n val o = js(\"({})\")\n o[\"x\"] = x\n o[\"y\"] = y\n o[\"width\"] = width\n o[\"height\"] = height\n return o\n}\n\npublic external interface DOMRectList : ItemArrayLike<DOMRect> {\n override fun item(index: Int): DOMRect?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun DOMRectList.get(index: Int): DOMRect? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [DOMQuad](https://developer.mozilla.org/en/docs/Web/API/DOMQuad) to Kotlin\n */\npublic external open class DOMQuad {\n constructor(p1: DOMPointInit = definedExternally, p2: DOMPointInit = definedExternally, p3: DOMPointInit
= definedExternally, p4: DOMPointInit = definedExternally)\n constructor(rect: DOMRectInit)\n open val p1: DOMPoint\n open val p2: DOMPoint\n open val p3: DOMPoint\n open val p4: DOMPoint\n open val bounds: DOMRectReadOnly\n}\n\n/**\n * Exposes the JavaScript [DOMMatrixReadOnly](https://developer.mozilla.org/en/docs/Web/API/DOMMatrixReadOnly) to Kotlin\n */\npublic external open class DOMMatrixReadOnly(numberSequence: Array<Double>) {\n open val a: Double\n open val b: Double\n open val c: Double\n open val d: Double\n open val e: Double\n open val f: Double\n open val m11: Double\n open val m12: Double\n open val m13: Double\n open val m14: Double\n open val m21: Double\n open val m22: Double\n open val m23: Double\n open val m24: Double\n open val m31: Double\n open val m32: Double\n open val m33: Double\n open val m34: Double\n open val m41: Double\n open val m42: Double\n open val m43: Double\n

open val m44: Double\n open val is2D: Boolean\n open val isIdentity: Boolean\n fun translate(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n fun scale(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun scale3d(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun scaleNonUniform(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun rotate(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun rotateFromVector(x: Double, y: Double): DOMMatrix\n fun rotateAxisAngle(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\n fun skewX(sx: Double): DOMMatrix\n fun skewY(sy: Double):
DOMMatrix\n fun multiply(other: DOMMatrix): DOMMatrix\n fun flipX(): DOMMatrix\n fun flipY(): DOMMatrix\n fun inverse(): DOMMatrix\n fun transformPoint(point: DOMPointInit = definedExternally): DOMPoint\n fun toFloat32Array(): Float32Array\n fun toFloat64Array(): Float64Array\n}\n\n/**\n * Exposes the JavaScript [DOMMatrix](https://developer.mozilla.org/en/docs/Web/API/DOMMatrix) to Kotlin\n */\npublic external open class DOMMatrix() : DOMMatrixReadOnly {\n constructor(transformList: String)\n constructor(other: DOMMatrixReadOnly)\n constructor(array32: Float32Array)\n constructor(array64: Float64Array)\n constructor(numberSequence: Array<Double>)\n override var a: Double\n override var b: Double\n override var c: Double\n override var d: Double\n override var e: Double\n override var f: Double\n override var m11: Double\n override var m12: Double\n override var m13: Double\n override var m14: Double\n override var
m21: Double\n override var m22: Double\n override var m23: Double\n override var m24: Double\n override var m31: Double\n override var m32: Double\n override var m33: Double\n override var m34: Double\n override var m41: Double\n override var m42: Double\n override var m43: Double\n override var m44: Double\n fun multiplySelf(other: DOMMatrix): DOMMatrix\n fun preMultiplySelf(other: DOMMatrix): DOMMatrix\n fun translateSelf(tx: Double, ty: Double, tz: Double = definedExternally): DOMMatrix\n fun scaleSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun scale3dSelf(scale: Double, originX: Double = definedExternally, originY: Double = definedExternally, originZ: Double = definedExternally): DOMMatrix\n fun scaleNonUniformSelf(scaleX: Double, scaleY: Double = definedExternally, scaleZ: Double = definedExternally, originX: Double = definedExternally, originY: Double = definedExternally,
originZ: Double = definedExternally): DOMMatrix\n fun rotateSelf(angle: Double, originX: Double = definedExternally, originY: Double = definedExternally): DOMMatrix\n fun rotateFromVectorSelf(x: Double, y: Double): DOMMatrix\n fun rotateAxisAngleSelf(x: Double, y: Double, z: Double, angle: Double): DOMMatrix\n fun skewXSelf(sx: Double): DOMMatrix\n fun skewYSelf(sy: Double): DOMMatrix\n fun invertSelf(): DOMMatrix\n fun setMatrixValue(transformList: String): DOMMatrix\n}\n\npublic external interface ScrollOptions {\n var behavior: ScrollBehavior? /* = ScrollBehavior.AUTO */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ScrollOptions(behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollOptions {\n val o = js(\"({})\")\n o[\"behavior\"] = behavior\n return o\n}\n\n/**\n * Exposes the JavaScript [ScrollToOptions](https://developer.mozilla.org/en/docs/Web/API/ScrollToOptions)
to Kotlin\n */\npublic external interface ScrollToOptions : ScrollOptions {\n var left: Double?\n get() = definedExternally\n set(value) = definedExternally\n var top: Double?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ScrollToOptions(left: Double? = undefined, top: Double? = undefined, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollToOptions {\n val o = js(\"({})\")\n o[\"left\"] = left\n o[\"top\"] = top\n o[\"behavior\"] = behavior\n return o\n}\n\n/**\n * Exposes the JavaScript [MediaQueryList](https://developer.mozilla.org/en/docs/Web/API/MediaQueryList) to Kotlin\n */\npublic external abstract class MediaQueryList : EventTarget {\n open val media: String\n open val matches: Boolean\n open var onchange: ((Event) -> dynamic)?\n fun addListener(listener: EventListener?)\n

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fun addListener(listener: ((Event) -> Unit)?)\n    fun removeListener(listener:
 EventListener?)\n    fun removeListener(listener: ((Event) -> Unit)?)\n}\n\n/**\n * Exposes the JavaScript
[MediaQueryListEvent](https://developer.mozilla.org/en/docs/Web/API/MediaQueryListEvent) to Kotlin\n
*/\npublic external open class MediaQueryListEvent(type: String, eventInitDict: MediaQueryListEventInit =
definedExternally) : Event {\n    open val media: String\n    open val matches: Boolean\n\n    companion object {\n
   val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val
BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface MediaQueryListEventInit : EventInit {\n    var
media: String? /* = \"\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var matches:
Boolean? /* = false */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaQueryListEventInit(media: String? =
\"\", matches: Boolean? = false,
 bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaQueryListEventInit
{\n    val o = js(\"({})\")\n    o[\"media\"] = media\n    o[\"matches\"] = matches\n    o[\"bubbles\"] = bubbles\n
o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript
[Screen](https://developer.mozilla.org/en/docs/Web/API/Screen) to Kotlin\n */\npublic external abstract class
Screen {\n    open val availWidth: Int\n    open val availHeight: Int\n    open val width: Int\n    open val height: Int\n
 open val colorDepth: Int\n    open val pixelDepth: Int\n}\n\n/**\n * Exposes the JavaScript
[CaretPosition](https://developer.mozilla.org/en/docs/Web/API/CaretPosition) to Kotlin\n */\npublic external
abstract class CaretPosition {\n    open val offsetNode: Node\n    open val offset: Int\n    fun getClientRect():
DOMRect?\n}\n\npublic external interface ScrollIntoViewOptions : ScrollOptions {\n    var block:
ScrollLogicalPosition?
 /* = ScrollLogicalPosition.CENTER */\n        get() = definedExternally\n        set(value) = definedExternally\n
var inline: ScrollLogicalPosition? /* = ScrollLogicalPosition.CENTER */\n        get() = definedExternally\n
set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ScrollIntoViewOptions(block:
ScrollLogicalPosition? = ScrollLogicalPosition.CENTER, inline: ScrollLogicalPosition? =
ScrollLogicalPosition.CENTER, behavior: ScrollBehavior? = ScrollBehavior.AUTO): ScrollIntoViewOptions {\n
val o = js(\"({})\")\n    o[\"block\"] = block\n    o[\"inline\"] = inline\n    o[\"behavior\"] = behavior\n    return
o\n}\n\npublic external interface BoxQuadOptions {\n    var box: CSSBoxType? /* = CSSBoxType.BORDER */\n
   get() = definedExternally\n        set(value) = definedExternally\n    var relativeTo: dynamic\n        get() =
definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic
 inline fun BoxQuadOptions(box: CSSBoxType? = CSSBoxType.BORDER, relativeTo: dynamic = undefined):
BoxQuadOptions {\n    val o = js(\"({})\")\n    o[\"box\"] = box\n    o[\"relativeTo\"] = relativeTo\n    return
o\n}\n\npublic external interface ConvertCoordinateOptions {\n    var fromBox: CSSBoxType? /* =
CSSBoxType.BORDER */\n        get() = definedExternally\n        set(value) = definedExternally\n    var toBox:
CSSBoxType? /* = CSSBoxType.BORDER */\n        get() = definedExternally\n        set(value) =
definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConvertCoordinateOptions(fromBox:
CSSBoxType? = CSSBoxType.BORDER, toBox: CSSBoxType? = CSSBoxType.BORDER):
ConvertCoordinateOptions {\n    val o = js(\"({})\")\n    o[\"fromBox\"] = fromBox\n    o[\"toBox\"] = toBox\n
return o\n}\n\n/**\n * Exposes the JavaScript
[GeometryUtils](https://developer.mozilla.org/en/docs/Web/API/GeometryUtils) to Kotlin\n */\npublic external
interface GeometryUtils {\n    fun
 getBoxQuads(options: BoxQuadOptions = definedExternally): Array<DOMQuad>\n    fun
convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions = definedExternally):
DOMQuad\n    fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options:
ConvertCoordinateOptions = definedExternally): DOMQuad\n    fun convertPointFromNode(point: DOMPointInit,
from: dynamic, options: ConvertCoordinateOptions = definedExternally): DOMPoint\n}\n\n/**\n * Exposes the
JavaScript [Image](https://developer.mozilla.org/en/docs/Web/API/Image) to Kotlin\n */\npublic external open class
Image(width: Int = definedExternally, height: Int = definedExternally) : HTMLImageElement {\n    override var
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onabort: ((Event) -> dynamic)?\n override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel: ((Event) -> dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough: ((Event) -> dynamic)?\n override var onchange: ((Event) -> dynamic)?\n

override var onclick: ((MouseEvent) -> dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) -> dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) -> dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) -> dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) -> dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) -> dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) -> dynamic)?\n override var ondurationchange: ((Event) -> dynamic)?\n override var onemptied: ((Event) -> dynamic)?\n override var onended: ((Event) -> dynamic)?\n override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n

override var oninput: ((InputEvent) -> dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) -> dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\n override var onload: ((Event) -> dynamic)?\n override var onloadeddata: ((Event) -> dynamic)?\n override var onloadedmetadata: ((Event) -> dynamic)?\n override var onloadend: ((Event) -> dynamic)?\n override var onloadstart: ((ProgressEvent) -> dynamic)?\n override var onmousedown: ((MouseEvent) -> dynamic)?\n override var onmouseenter: ((MouseEvent) -> dynamic)?\n override var onmouseleave: ((MouseEvent) -> dynamic)?\n override var onmousemove: ((MouseEvent) -> dynamic)?\n override var onmouseout: ((MouseEvent) -> dynamic)?\n override var onmouseover: ((MouseEvent) -> dynamic)?\n override var onmouseup: ((MouseEvent) -> dynamic)?\n override var onwheel: ((WheelEvent)

-> dynamic)?\n override var onpause: ((Event) -> dynamic)?\n override var onplay: ((Event) -> dynamic)?\n override var onplaying: ((Event) -> dynamic)?\n override var onprogress: ((ProgressEvent) -> dynamic)?\n override var onratechange: ((Event) -> dynamic)?\n override var onreset: ((Event) -> dynamic)?\n override var onresize: ((Event) -> dynamic)?\n override var onscroll: ((Event) -> dynamic)?\n override var onseeked: ((Event) -> dynamic)?\n override var onseeking: ((Event) -> dynamic)?\n override var onselect: ((Event) -> dynamic)?\n override var onshow: ((Event) -> dynamic)?\n override var onstalled: ((Event) -> dynamic)?\n override var onsubmit: ((Event) -> dynamic)?\n override var onsuspend: ((Event) -> dynamic)?\n override var ontimeupdate: ((Event) -> dynamic)?\n override var ontoggle: ((Event) -> dynamic)?\n override var onvolumechange: ((Event) -> dynamic)?\n override var onwaiting: ((Event) -> dynamic)?\n override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n override var onlostpointercapture: ((PointerEvent) -> dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove: ((PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) -> dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy: ((ClipboardEvent) -> dynamic)?\n override var oncut: ((ClipboardEvent) -> dynamic)?\n override var onpaste: ((ClipboardEvent) -> dynamic)?\n override var contentEditable: String\n override val isContentEditable: Boolean\n override val style: CSSStyleDeclaration\n override val children: HTMLCollection\n override val firstElementChild:

Element?\n override val lastElementChild: Element?\n override val childElementCount: Int\n override val previousElementSibling: Element?\n override val nextElementSibling: Element?\n override val assignedSlot: HTMLSlotElement?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors: String): NodeList\n override fun before(vararg nodes: dynamic)\n override fun after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad:

dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n   override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally
 /): DOMQuad\n   override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions / = definedExternally */): DOMPoint\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external open class Audio(src:
 String = definedExternally) : HTMLAudioElement {\n   override var onabort: ((Event) -> dynamic)?\n   override var onblur: ((FocusEvent) -> dynamic)?\n   override var oncancel: ((Event) -> dynamic)?\n   override var oncanplay: ((Event) -> dynamic)?\n   override var oncanplaythrough: ((Event) -> dynamic)?\n   override var onchange: ((Event) -> dynamic)?\n   override var onclick: ((MouseEvent) -> dynamic)?\n   override var onclose: ((Event) -> dynamic)?\n   override var oncontextmenu: ((MouseEvent) -> dynamic)?\n   override var oncuechange: ((Event) -> dynamic)?\n   override var ondblclick: ((MouseEvent) -> dynamic)?\n   override var ondrag: ((DragEvent) -> dynamic)?\n   override var ondragend: ((DragEvent) -> dynamic)?\n   override var ondragenter: ((DragEvent) -> dynamic)?\n   override var ondragexit: ((DragEvent) -> dynamic)?\n   override var ondragleave: ((DragEvent) -> dynamic)?\n   override var ondragover: ((DragEvent) -> dynamic)?\n   override var ondragstart: ((DragEvent)
 -> dynamic)?\n   override var ondrop: ((DragEvent) -> dynamic)?\n   override var ondurationchange: ((Event) -> dynamic)?\n   override var onemptied: ((Event) -> dynamic)?\n   override var onended: ((Event) -> dynamic)?\n   override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n   override var onfocus: ((FocusEvent) -> dynamic)?\n   override var oninput: ((InputEvent) -> dynamic)?\n   override var oninvalid: ((Event) -> dynamic)?\n   override var onkeydown: ((KeyboardEvent) -> dynamic)?\n   override var onkeypress: ((KeyboardEvent) -> dynamic)?\n   override var onkeyup: ((KeyboardEvent) -> dynamic)?\n   override var onload: ((Event) -> dynamic)?\n   override var onloadeddata: ((Event) -> dynamic)?\n   override var onloadedmetadata: ((Event) -> dynamic)?\n   override var onloadend: ((Event) -> dynamic)?\n   override var onloadstart: ((ProgressEvent) -> dynamic)?\n   override var onmousedown: ((MouseEvent) -> dynamic)?\n   override var onmouseenter: ((MouseEvent) -> dynamic)?\n   override var onmouseleave: ((MouseEvent) -> dynamic)?\n   override var onmousemove: ((MouseEvent) -> dynamic)?\n   override var onmouseout: ((MouseEvent) -> dynamic)?\n   override var onmouseover: ((MouseEvent) -> dynamic)?\n   override var onmouseup: ((MouseEvent) -> dynamic)?\n   override var onwheel: ((WheelEvent) -> dynamic)?\n   override var onpause: ((Event) -> dynamic)?\n   override var onplay: ((Event) -> dynamic)?\n   override var onplaying: ((Event) -> dynamic)?\n   override var onprogress: ((ProgressEvent) -> dynamic)?\n   override var onratechange: ((Event) -> dynamic)?\n   override var onreset: ((Event) -> dynamic)?\n   override var onresize: ((Event) -> dynamic)?\n   override var onscroll: ((Event) -> dynamic)?\n   override var onseeked: ((Event) -> dynamic)?\n   override var onseeking: ((Event) -> dynamic)?\n   override var onselect: ((Event) -> dynamic)?\n   override var onshow: ((Event) -> dynamic)?\n   override var
 onstalled: ((Event) -> dynamic)?\n   override var onsubmit: ((Event) -> dynamic)?\n   override var onsuspend: ((Event) -> dynamic)?\n   override var ontimeupdate: ((Event) -> dynamic)?\n   override var ontoggle: ((Event) -> dynamic)?\n   override var onvolumechange: ((Event) -> dynamic)?\n   override var onwaiting: ((Event) -> dynamic)?\n   override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n   override var

onlostpointercapture: ((PointerEvent) -> dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove: ((PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) -> dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy:
((ClipboardEvent) -> dynamic)?\n override var oncut: ((ClipboardEvent) -> dynamic)?\n override var onpaste: ((ClipboardEvent) -> dynamic)?\n override var contentEditable: String\n override val isContentEditable: Boolean\n override val style: CSSStyleDeclaration\n override val children: HTMLCollection\n override val firstElementChild: Element?\n override val lastElementChild: Element?\n override val childElementCount: Int\n override val previousElementSibling: Element?\n override val nextElementSibling: Element?\n override val assignedSlot: HTMLSlotElement?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors: String): NodeList\n override fun before(vararg nodes: dynamic)\n override fun after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n companion object {\n val NETWORK_EMPTY: Short\n val NETWORK_IDLE: Short\n val NETWORK_LOADING: Short\n val NETWORK_NO_SOURCE: Short\n val HAVE_NOTHING: Short\n val HAVE_METADATA: Short\n val HAVE_CURRENT_DATA: Short\n val HAVE_FUTURE_DATA: Short\n val HAVE_ENOUGH_DATA: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE:
Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [Option](https://developer.mozilla.org/en/docs/Web/API/Option) to Kotlin\n */\npublic external open class Option(text: String = definedExternally, value: String = definedExternally, defaultSelected: Boolean = definedExternally, selected: Boolean = definedExternally) : HTMLOptionElement {\n override var onabort: ((Event) -> dynamic)?\n override var onblur: ((FocusEvent) -> dynamic)?\n override var oncancel: ((Event) -> dynamic)?\n override var oncanplay: ((Event) -> dynamic)?\n override var oncanplaythrough: ((Event) -> dynamic)?\n override var onchange: ((Event) -> dynamic)?\n override var onclick: ((MouseEvent) -> dynamic)?\n override var onclose: ((Event) -> dynamic)?\n override var oncontextmenu: ((MouseEvent) -> dynamic)?\n override var oncuechange: ((Event) -> dynamic)?\n override var ondblclick: ((MouseEvent) -> dynamic)?\n override var ondrag: ((DragEvent) -> dynamic)?\n override var ondragend: ((DragEvent) -> dynamic)?\n override var ondragenter: ((DragEvent) -> dynamic)?\n override var ondragexit: ((DragEvent) -> dynamic)?\n override var ondragleave: ((DragEvent) -> dynamic)?\n override var ondragover: ((DragEvent) -> dynamic)?\n override var ondragstart: ((DragEvent) -> dynamic)?\n override var ondrop: ((DragEvent) -> dynamic)?\n override var

ondurationchange: ((Event) -> dynamic)?\n override var onemptied: ((Event) -> dynamic)?\n override var onended: ((Event) -> dynamic)?\n override var onerror: ((dynamic, String, Int, Int, Any?) -> dynamic)?\n override var onfocus: ((FocusEvent) -> dynamic)?\n override var oninput: ((InputEvent) -> dynamic)?\n override var oninvalid: ((Event) -> dynamic)?\n override var onkeydown: ((KeyboardEvent) -> dynamic)?\n override var onkeypress: ((KeyboardEvent) -> dynamic)?\n override var onkeyup: ((KeyboardEvent) -> dynamic)?\n override var onload: ((Event) -> dynamic)?\n override var onloadeddata: ((Event) -> dynamic)?\n override var onloadedmetadata: ((Event) -> dynamic)?\n override var onloadend: ((Event) -> dynamic)?\n override var onloadstart: ((ProgressEvent) -> dynamic)?\n override var onmousedown: ((MouseEvent) -> dynamic)?\n override var onmouseenter: ((MouseEvent) -> dynamic)?\n override var onmouseleave: ((MouseEvent) -> dynamic)?\n

override var onmousemove: ((MouseEvent) -> dynamic)?\n override var onmouseout: ((MouseEvent) -> dynamic)?\n override var onmouseover: ((MouseEvent) -> dynamic)?\n override var onmouseup: ((MouseEvent) -> dynamic)?\n override var onwheel: ((WheelEvent) -> dynamic)?\n override var onpause: ((Event) -> dynamic)?\n override var onplay: ((Event) -> dynamic)?\n override var onplaying: ((Event) -> dynamic)?\n override var onprogress: ((ProgressEvent) -> dynamic)?\n override var onratechange: ((Event) -> dynamic)?\n override var onreset: ((Event) -> dynamic)?\n override var onresize: ((Event) -> dynamic)?\n override var onscroll: ((Event) -> dynamic)?\n override var onseeked: ((Event) -> dynamic)?\n override var onseeking: ((Event) -> dynamic)?\n override var onselect: ((Event) -> dynamic)?\n override var onshow: ((Event) -> dynamic)?\n override var onstalled: ((Event) -> dynamic)?\n override var onsubmit: ((Event) -> dynamic)?\n override

var onsuspend: ((Event) -> dynamic)?\n override var ontimeupdate: ((Event) -> dynamic)?\n override var ontoggle: ((Event) -> dynamic)?\n override var onvolumechange: ((Event) -> dynamic)?\n override var onwaiting: ((Event) -> dynamic)?\n override var ongotpointercapture: ((PointerEvent) -> dynamic)?\n override var onlostpointercapture: ((PointerEvent) -> dynamic)?\n override var onpointerdown: ((PointerEvent) -> dynamic)?\n override var onpointermove: ((PointerEvent) -> dynamic)?\n override var onpointerup: ((PointerEvent) -> dynamic)?\n override var onpointercancel: ((PointerEvent) -> dynamic)?\n override var onpointerover: ((PointerEvent) -> dynamic)?\n override var onpointerout: ((PointerEvent) -> dynamic)?\n override var onpointerenter: ((PointerEvent) -> dynamic)?\n override var onpointerleave: ((PointerEvent) -> dynamic)?\n override var oncopy: ((ClipboardEvent) -> dynamic)?\n override var oncut: ((ClipboardEvent) -> dynamic)?\n

override var onpaste: ((ClipboardEvent) -> dynamic)?\n override var contentEditable: String\n override val isContentEditable: Boolean\n override val style: CSSStyleDeclaration\n override val children: HTMLCollection\n override val firstElementChild: Element?\n override val lastElementChild: Element?\n override val childElementCount: Int\n override val previousElementSibling: Element?\n override val nextElementSibling: Element?\n override val assignedSlot: HTMLSlotElement?\n override fun prepend(vararg nodes: dynamic)\n override fun append(vararg nodes: dynamic)\n override fun querySelector(selectors: String): Element?\n override fun querySelectorAll(selectors: String): NodeList\n override fun before(vararg nodes: dynamic)\n override fun after(vararg nodes: dynamic)\n override fun replaceWith(vararg nodes: dynamic)\n override fun remove()\n override fun getBoxQuads(options: BoxQuadOptions /* = definedExternally */): Array<DOMQuad>\n

override fun convertQuadFromNode(quad: dynamic, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertRectFromNode(rect: DOMRectReadOnly, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMQuad\n override fun convertPointFromNode(point: DOMPointInit, from: dynamic, options: ConvertCoordinateOptions /* = definedExternally */): DOMPoint\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val

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DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING:
 Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val
DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n
  val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\npublic external interface
UnionElementOrHTMLCollection\n\npublic external interface UnionElementOrRadioNodeList\n\npublic external
interface UnionHTMLOptGroupElementOrHTMLOptionElement\n\npublic external interface
UnionAudioTrackOrTextTrackOrVideoTrack\n\npublic external interface UnionElementOrMouseEvent\n\npublic
external interface RenderingContext\n\npublic external interface HTMLOrSVGImageElement :
CanvasImageSource\n\npublic external interface CanvasImageSource : ImageBitmapSource\n\npublic external
interface ImageBitmapSource\n\npublic external interface UnionMessagePortOrWindowProxy\n\npublic external
interface HTMLOrSVGScriptElement\n\n/* please, don't implement this interface!
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
 DocumentReadyState {\n    companion object\n}\n\npublic inline val
DocumentReadyState.Companion.LOADING: DocumentReadyState get() =
\"loading\".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic inline val
DocumentReadyState.Companion.INTERACTIVE: DocumentReadyState get() =
\"interactive\".asDynamic().unsafeCast<DocumentReadyState>()\n\npublic inline val
DocumentReadyState.Companion.COMPLETE: DocumentReadyState get() =
\"complete\".asDynamic().unsafeCast<DocumentReadyState>()\n\n/* please, don't implement this interface!
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
CanPlayTypeResult {\n    companion object\n}\n\npublic inline val CanPlayTypeResult.Companion.EMPTY:
CanPlayTypeResult get() = \"\".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic inline val
CanPlayTypeResult.Companion.MAYBE: CanPlayTypeResult get() =
\"maybe\".asDynamic().unsafeCast<CanPlayTypeResult>()\n\npublic inline val
CanPlayTypeResult.Companion.PROBABLY: CanPlayTypeResult
 get() = \"probably\".asDynamic().unsafeCast<CanPlayTypeResult>()\n\n/* please, don't implement this interface!
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface TextTrackMode
{\n    companion object\n}\n\npublic inline val TextTrackMode.Companion.DISABLED: TextTrackMode get() =
\"disabled\".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.HIDDEN: TextTrackMode get() =
\"hidden\".asDynamic().unsafeCast<TextTrackMode>()\n\npublic inline val
TextTrackMode.Companion.SHOWING: TextTrackMode get() =
\"showing\".asDynamic().unsafeCast<TextTrackMode>()\n\n/* please, don't implement this interface!
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface TextTrackKind
{\n    companion object\n}\n\npublic inline val TextTrackKind.Companion.SUBTITLES: TextTrackKind get() =
\"subtitles\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CAPTIONS: TextTrackKind get() =
\"captions\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic
 inline val TextTrackKind.Companion.DESCRIPTIONS: TextTrackKind get() =
\"descriptions\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.CHAPTERS: TextTrackKind get() =
\"chapters\".asDynamic().unsafeCast<TextTrackKind>()\n\npublic inline val
TextTrackKind.Companion.METADATA: TextTrackKind get() =
\"metadata\".asDynamic().unsafeCast<TextTrackKind>()\n\n/* please, don't implement this interface!
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface SelectionMode
{\n    companion object\n}\n\npublic inline val SelectionMode.Companion.SELECT: SelectionMode get() =
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\"select\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.START: SelectionMode get() = \"start\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.END: SelectionMode get() = \"end\".asDynamic().unsafeCast<SelectionMode>()\n\npublic inline val SelectionMode.Companion.PRESERVE: SelectionMode get() = \"preserve\".asDynamic().unsafeCast<SelectionMode>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasFillRule {\n   companion object\n}\n\npublic inline val CanvasFillRule.Companion.NONZERO: CanvasFillRule get() = \"nonzero\".asDynamic().unsafeCast<CanvasFillRule>()\n\npublic inline val CanvasFillRule.Companion.EVENODD: CanvasFillRule get() = \"evenodd\".asDynamic().unsafeCast<CanvasFillRule>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ImageSmoothingQuality {\n   companion object\n}\n\npublic inline val ImageSmoothingQuality.Companion.LOW: ImageSmoothingQuality get() = \"low\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val ImageSmoothingQuality.Companion.MEDIUM: ImageSmoothingQuality get() = \"medium\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\npublic inline val ImageSmoothingQuality.Companion.HIGH: ImageSmoothingQuality get() = \"high\".asDynamic().unsafeCast<ImageSmoothingQuality>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasLineCap {\n   companion object\n}\n\npublic inline val CanvasLineCap.Companion.BUTT: CanvasLineCap get() = \"butt\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val CanvasLineCap.Companion.ROUND: CanvasLineCap get() = \"round\".asDynamic().unsafeCast<CanvasLineCap>()\n\npublic inline val CanvasLineCap.Companion.SQUARE: CanvasLineCap get() = \"square\".asDynamic().unsafeCast<CanvasLineCap>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasLineJoin {\n   companion object\n}\n\npublic inline val CanvasLineJoin.Companion.ROUND: CanvasLineJoin get() = \"round\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val CanvasLineJoin.Companion.BEVEL: CanvasLineJoin get() = \"bevel\".asDynamic().unsafeCast<CanvasLineJoin>()\n\npublic inline val CanvasLineJoin.Companion.MITER: CanvasLineJoin get() = \"miter\".asDynamic().unsafeCast<CanvasLineJoin>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasTextAlign {\n   companion object\n}\n\npublic inline val CanvasTextAlign.Companion.START: CanvasTextAlign get() = \"start\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.END: CanvasTextAlign get() = \"end\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.LEFT: CanvasTextAlign get() = \"left\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.RIGHT: CanvasTextAlign get() = \"right\".asDynamic().unsafeCast<CanvasTextAlign>()\n\npublic inline val CanvasTextAlign.Companion.CENTER: CanvasTextAlign get() = \"center\".asDynamic().unsafeCast<CanvasTextAlign>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasTextBaseline {\n   companion object\n}\n\npublic inline val CanvasTextBaseline.Companion.TOP: CanvasTextBaseline get() = \"top\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val CanvasTextBaseline.Companion.HANGING: CanvasTextBaseline get() = \"hanging\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val CanvasTextBaseline.Companion.MIDDLE: CanvasTextBaseline get() = \"middle\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val CanvasTextBaseline.Companion.ALPHABETIC: CanvasTextBaseline get() =

\"alphabetic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val CanvasTextBaseline.Companion.IDEOGRAPHIC: CanvasTextBaseline get() = \"ideographic\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\npublic inline val CanvasTextBaseline.Companion.BOTTOM:
CanvasTextBaseline get() = \"bottom\".asDynamic().unsafeCast<CanvasTextBaseline>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CanvasDirection {\n companion object\n}\n\npublic inline val CanvasDirection.Companion.LTR: CanvasDirection get() = \"ltr\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val CanvasDirection.Companion.RTL: CanvasDirection get() = \"rtl\".asDynamic().unsafeCast<CanvasDirection>()\n\npublic inline val CanvasDirection.Companion.INHERIT: CanvasDirection get() = \"inherit\".asDynamic().unsafeCast<CanvasDirection>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ScrollRestoration {\n companion object\n}\n\npublic inline val ScrollRestoration.Companion.AUTO: ScrollRestoration get() = \"auto\".asDynamic().unsafeCast<ScrollRestoration>()\n\npublic inline val ScrollRestoration.Companion.MANUAL:
ScrollRestoration get() = \"manual\".asDynamic().unsafeCast<ScrollRestoration>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ImageOrientation {\n companion object\n}\n\npublic inline val ImageOrientation.Companion.NONE: ImageOrientation get() = \"none\".asDynamic().unsafeCast<ImageOrientation>()\n\npublic inline val ImageOrientation.Companion.FLIPY: ImageOrientation get() = \"flipY\".asDynamic().unsafeCast<ImageOrientation>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface PremultiplyAlpha {\n companion object\n}\n\npublic inline val PremultiplyAlpha.Companion.NONE: PremultiplyAlpha get() = \"none\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline val PremultiplyAlpha.Companion.PREMULTIPLY: PremultiplyAlpha get() = \"premultiply\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\npublic inline
val PremultiplyAlpha.Companion.DEFAULT: PremultiplyAlpha get() = \"default\".asDynamic().unsafeCast<PremultiplyAlpha>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ColorSpaceConversion {\n companion object\n}\n\npublic inline val ColorSpaceConversion.Companion.NONE: ColorSpaceConversion get() = \"none\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\npublic inline val ColorSpaceConversion.Companion.DEFAULT: ColorSpaceConversion get() = \"default\".asDynamic().unsafeCast<ColorSpaceConversion>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ResizeQuality {\n companion object\n}\n\npublic inline val ResizeQuality.Companion.PIXELATED: ResizeQuality get() = \"pixelated\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.LOW: ResizeQuality get() = \"low\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic
inline val ResizeQuality.Companion.MEDIUM: ResizeQuality get() = \"medium\".asDynamic().unsafeCast<ResizeQuality>()\n\npublic inline val ResizeQuality.Companion.HIGH: ResizeQuality get() = \"high\".asDynamic().unsafeCast<ResizeQuality>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface BinaryType {\n companion object\n}\n\npublic inline val BinaryType.Companion.BLOB: BinaryType get() = \"blob\".asDynamic().unsafeCast<BinaryType>()\n\npublic inline val BinaryType.Companion.ARRAYBUFFER: BinaryType get() = \"arraybuffer\".asDynamic().unsafeCast<BinaryType>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface WorkerType {\n companion object\n}\n\npublic inline val WorkerType.Companion.CLASSIC: WorkerType get() = \"classic\".asDynamic().unsafeCast<WorkerType>()\n\npublic inline val WorkerType.Companion.MODULE: WorkerType

get() = \"module\".asDynamic().unsafeCast<WorkerType>()\n\n/* please, don't implement this interface!
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
ShadowRootMode {\n   companion object\n}\n\npublic inline val ShadowRootMode.Companion.OPEN:
ShadowRootMode get() = \"open\".asDynamic().unsafeCast<ShadowRootMode>()\n\npublic inline val
ShadowRootMode.Companion.CLOSED: ShadowRootMode get() =
\"closed\".asDynamic().unsafeCast<ShadowRootMode>()\n\n/* please, don't implement this interface!
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ScrollBehavior
{\n   companion object\n}\n\npublic inline val ScrollBehavior.Companion.AUTO: ScrollBehavior get() =
\"auto\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val ScrollBehavior.Companion.INSTANT:
ScrollBehavior get() = \"instant\".asDynamic().unsafeCast<ScrollBehavior>()\n\npublic inline val
ScrollBehavior.Companion.SMOOTH: ScrollBehavior get() =
\"smooth\".asDynamic().unsafeCast<ScrollBehavior>()\n\n/*
please, don't implement this interface!
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface
ScrollLogicalPosition {\n   companion object\n}\n\npublic inline val ScrollLogicalPosition.Companion.START:
ScrollLogicalPosition get() = \"start\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.CENTER: ScrollLogicalPosition get() =
\"center\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.END: ScrollLogicalPosition get() =
\"end\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\npublic inline val
ScrollLogicalPosition.Companion.NEAREST: ScrollLogicalPosition get() =
\"nearest\".asDynamic().unsafeCast<ScrollLogicalPosition>()\n\n/* please, don't implement this interface!
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface CSSBoxType {\n
companion object\n}\n\npublic inline val CSSBoxType.Companion.MARGIN:
CSSBoxType get() = \"margin\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.BORDER: CSSBoxType get() =
\"border\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val CSSBoxType.Companion.PADDING:
CSSBoxType get() = \"padding\".asDynamic().unsafeCast<CSSBoxType>()\n\npublic inline val
CSSBoxType.Companion.CONTENT: CSSBoxType get() =
\"content\".asDynamic().unsafeCast<CSSBoxType>()","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin
Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be
found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n//
See github.com/kotlin/dukat for details\n\npackage org.w3c.fetch\n\nimport kotlin.js.*\nimport
org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.mediacapture.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport
org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[Headers](https://developer.mozilla.org/en/docs/Web/API/Headers) to Kotlin\n */\npublic external open class
Headers(init: dynamic = definedExternally) {\n   fun append(name: String, value: String)\n   fun delete(name:
String)\n   fun get(name: String): String?\n   fun has(name: String): Boolean\n   fun set(name: String, value:
String)\n}\n\n/**\n * Exposes the JavaScript [Body](https://developer.mozilla.org/en/docs/Web/API/Body) to
Kotlin\n */\npublic external interface Body {\n   val bodyUsed: Boolean\n   fun arrayBuffer():
Promise<ArrayBuffer>\n   fun blob(): Promise<Blob>\n   fun formData(): Promise<FormData>\n   fun json():
Promise<Any?>\n   fun text(): Promise<String>\n}\n\n/**\n *
Exposes the JavaScript [Request](https://developer.mozilla.org/en/docs/Web/API/Request) to Kotlin\n */\npublic
external open class Request(input: dynamic, init: RequestInit = definedExternally) : Body {\n   open val method:

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String\n    open val url: String\n    open val headers: Headers\n    open val type: RequestType\n    open val destination: RequestDestination\n    open val referrer: String\n    open val referrerPolicy: dynamic\n    open val mode: RequestMode\n    open val credentials: RequestCredentials\n    open val cache: RequestCache\n    open val redirect: RequestRedirect\n    open val integrity: String\n    open val keepalive: Boolean\n    override val bodyUsed: Boolean\n    fun clone(): Request\n    override fun arrayBuffer(): Promise<ArrayBuffer>\n    override fun blob(): Promise<Blob>\n    override fun formData(): Promise<FormData>\n    override fun json(): Promise<Any?>\n    override fun text(): Promise<String>\n}\n\npublic external interface RequestInit {\n    var method: String?\n        get() = definedExternally\n        set(value) = definedExternally\n    var headers: dynamic\n        get() = definedExternally\n        set(value) = definedExternally\n    var body: dynamic\n        get() = definedExternally\n        set(value) = definedExternally\n    var referrer: String?\n        get() = definedExternally\n        set(value) = definedExternally\n    var referrerPolicy: dynamic\n        get() = definedExternally\n        set(value) = definedExternally\n    var mode: RequestMode?\n        get() = definedExternally\n        set(value) = definedExternally\n    var credentials: RequestCredentials?\n        get() = definedExternally\n        set(value) = definedExternally\n    var cache: RequestCache?\n        get() = definedExternally\n        set(value) = definedExternally\n    var redirect: RequestRedirect?\n        get() = definedExternally\n        set(value) = definedExternally\n    var integrity: String?\n        get() = definedExternally\n        set(value) = definedExternally\n    var keepalive: Boolean?\n        get() = definedExternally\n        set(value) = definedExternally\n    var window: Any?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun RequestInit(method: String? = undefined, headers: dynamic = undefined, body: dynamic = undefined, referrer: String? = undefined, referrerPolicy: dynamic = undefined, mode: RequestMode? = undefined, credentials: RequestCredentials? = undefined, cache: RequestCache? = undefined, redirect: RequestRedirect? = undefined, integrity: String? = undefined, keepalive: Boolean? = undefined, window: Any? = undefined): RequestInit {\n    val o = js(\"({})\")\n    o[\"method\"] = method\n    o[\"headers\"] = headers\n    o[\"body\"] = body\n    o[\"referrer\"] = referrer\n    o[\"referrerPolicy\"] = referrerPolicy\n    o[\"mode\"] = mode\n    o[\"credentials\"] = credentials\n    o[\"cache\"] = cache\n    o[\"redirect\"] = redirect\n    o[\"integrity\"] = integrity\n    o[\"keepalive\"] = keepalive\n    o[\"window\"] = window\n    return o\n}\n\n/**\n * Exposes the JavaScript [Response](https://developer.mozilla.org/en/docs/Web/API/Response) to Kotlin\n */\npublic external open class Response(body: dynamic = definedExternally, init: ResponseInit = definedExternally) : Body {\n    open val type: ResponseType\n    open val url: String\n    open val redirected: Boolean\n    open val status: Short\n    open val ok: Boolean\n    open val statusText: String\n    open val headers: Headers\n    open val body: dynamic\n    open val trailer: Promise<Headers>\n    override val bodyUsed: Boolean\n    fun clone(): Response\n    override fun arrayBuffer(): Promise<ArrayBuffer>\n    override fun blob(): Promise<Blob>\n    override fun formData(): Promise<FormData>\n    override fun json(): Promise<Any?>\n    override fun text(): Promise<String>\n\n    companion object {\n        fun error(): Response\n        fun redirect(url: String, status: Short = definedExternally): Response\n    }\n}\n\npublic external interface ResponseInit {\n    var status: Short? /* = 200 */\n        get() = definedExternally\n        set(value) = definedExternally\n    var statusText: String? /* = \"OK\" */\n        get() = definedExternally\n        set(value) = definedExternally\n    var headers: dynamic\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ResponseInit(status: Short? = 200, statusText: String? = \"OK\", headers: dynamic = undefined): ResponseInit {\n    val o = js(\"({})\")\n    o[\"status\"] = status\n    o[\"statusText\"] = statusText\n    o[\"headers\"] = headers\n    return o\n}\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface RequestType {\n    companion object\n}\n\npublic inline val RequestType.Companion.EMPTY: RequestType get() = \"\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.AUDIO: RequestType get() = \"audio\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.FONT: RequestType get() = \"font\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.IMAGE: RequestType get() =
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\"image\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.SCRIPT: RequestType get() = \"script\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.STYLE: RequestType get() = \"style\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.TRACK: RequestType get() = \"track\".asDynamic().unsafeCast<RequestType>()\n\npublic inline val RequestType.Companion.VIDEO: RequestType get() = \"video\".asDynamic().unsafeCast<RequestType>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface RequestDestination {\n companion object\n}\n\npublic inline val RequestDestination.Companion.EMPTY: RequestDestination get() = \"\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.DOCUMENT: RequestDestination get() = \"document\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.EMBED: RequestDestination get() = \"embed\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.FONT: RequestDestination get() = \"font\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.IMAGE: RequestDestination get() = \"image\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.MANIFEST: RequestDestination get() = \"manifest\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.MEDIA: RequestDestination get() = \"media\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.OBJECT: RequestDestination get() = \"object\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.REPORT: RequestDestination get() = \"report\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.SCRIPT: RequestDestination get() = \"script\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.SERVICEWORKER: RequestDestination get() = \"serviceworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.SHAREDWORKER: RequestDestination get() = \"sharedworker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.STYLE: RequestDestination get() = \"style\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.WORKER: RequestDestination get() = \"worker\".asDynamic().unsafeCast<RequestDestination>()\n\npublic inline val RequestDestination.Companion.XSLT: RequestDestination get() = \"xslt\".asDynamic().unsafeCast<RequestDestination>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface RequestMode {\n companion object\n}\n\npublic inline val RequestMode.Companion.NAVIGATE: RequestMode get() = \"navigate\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.SAME_ORIGIN: RequestMode get() = \"same-origin\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.NO_CORS: RequestMode get() = \"no-cors\".asDynamic().unsafeCast<RequestMode>()\n\npublic inline val RequestMode.Companion.CORS: RequestMode get() = \"cors\".asDynamic().unsafeCast<RequestMode>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface

RequestCredentials {\n   companion object\n}\n\npublic
 inline val RequestCredentials.Companion.OMIT: RequestCredentials get() =
\"omit\".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.SAME_ORIGIN: RequestCredentials get() = \"same-
origin\".asDynamic().unsafeCast<RequestCredentials>()\n\npublic inline val
RequestCredentials.Companion.INCLUDE: RequestCredentials get() =
\"include\".asDynamic().unsafeCast<RequestCredentials>()\n\n/* please, don't implement this interface!
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface RequestCache
{\n   companion object\n}\n\npublic inline val RequestCache.Companion.DEFAULT: RequestCache get() =
\"default\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.NO_STORE:
RequestCache get() = \"no-store\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.RELOAD: RequestCache get() =
\"reload\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val RequestCache.Companion.NO_CACHE:
 RequestCache get() = \"no-cache\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.FORCE_CACHE: RequestCache get() = \"force-
cache\".asDynamic().unsafeCast<RequestCache>()\n\npublic inline val
RequestCache.Companion.ONLY_IF_CACHED: RequestCache get() = \"only-if-
cached\".asDynamic().unsafeCast<RequestCache>()\n\n/* please, don't implement this interface!
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface RequestRedirect
{\n   companion object\n}\n\npublic inline val RequestRedirect.Companion.FOLLOW: RequestRedirect get() =
\"follow\".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val RequestRedirect.Companion.ERROR:
RequestRedirect get() = \"error\".asDynamic().unsafeCast<RequestRedirect>()\n\npublic inline val
RequestRedirect.Companion.MANUAL: RequestRedirect get() =
\"manual\".asDynamic().unsafeCast<RequestRedirect>()\n\n/* please, don't implement this interface!
*/\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic
 external interface ResponseType {\n   companion object\n}\n\npublic inline val
ResponseType.Companion.BASIC: ResponseType get() =
\"basic\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.CORS:
ResponseType get() = \"cors\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.DEFAULT: ResponseType get() =
\"default\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val ResponseType.Companion.ERROR:
ResponseType get() = \"error\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.OPAQUE: ResponseType get() =
\"opaque\".asDynamic().unsafeCast<ResponseType>()\n\npublic inline val
ResponseType.Companion.OPAQUEREDIRECT: ResponseType get() =
\"opaqueredirect\".asDynamic().unsafeCast<ResponseType>()","/*\n * Copyright 2010-2019 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
 can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT
EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.mediacapture\n\nimport
kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport
org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport
org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport
org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport
org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript
[MediaStream](https://developer.mozilla.org/en/docs/Web/API/MediaStream) to Kotlin\n */\npublic external open
class MediaStream() : EventTarget {\n   constructor(stream: MediaStream)\n   constructor(tracks:
Array<MediaStreamTrack>)\n   open val id: String\n   open val active: Boolean\n   var onaddtrack:
((MediaStreamTrackEvent)

-> dynamic)?\n   var onremovetrack: ((MediaStreamTrackEvent) -> dynamic)?\n   fun getAudioTracks(): Array<MediaStreamTrack>\n   fun getVideoTracks(): Array<MediaStreamTrack>\n   fun getTracks(): Array<MediaStreamTrack>\n   fun getTrackById(trackId: String): MediaStreamTrack?\n   fun addTrack(track: MediaStreamTrack)\n   fun removeTrack(track: MediaStreamTrack)\n   fun clone(): MediaStream\n}\n\n/**\n * Exposes the JavaScript [MediaStreamTrack](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrack) to Kotlin\n */\npublic external abstract class MediaStreamTrack : EventTarget {\n   open val kind: String\n   open val id: String\n   open val label: String\n   open var enabled: Boolean\n   open val muted: Boolean\n   open var onmute: ((Event) -> dynamic)?\n   open var onunmute: ((Event) -> dynamic)?\n   open val readyState: MediaStreamTrackState\n   open var onended: ((Event) -> dynamic)?\n   open var onoverconstrained: ((Event) -> dynamic)?\n

    fun clone(): MediaStreamTrack\n   fun stop()\n   fun getCapabilities(): MediaTrackCapabilities\n   fun getConstraints(): MediaTrackConstraints\n   fun getSettings(): MediaTrackSettings\n   fun applyConstraints(constraints: MediaTrackConstraints = definedExternally): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript [MediaTrackSupportedConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSupportedConstraints) to Kotlin\n */\npublic external interface MediaTrackSupportedConstraints {\n   var width: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var height: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var aspectRatio: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var frameRate: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var facingMode: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var resizeMode: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var volume: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var sampleRate: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var sampleSize: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var echoCancellation: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var autoGainControl: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var noiseSuppression: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var latency: Boolean? /* = true */\n   get() = definedExternally\n

        set(value) = definedExternally\n   var channelCount: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var deviceId: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n   var groupId: Boolean? /* = true */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackSupportedConstraints(width: Boolean? = true, height: Boolean? = true, aspectRatio: Boolean? = true, frameRate: Boolean? = true, facingMode: Boolean? = true, resizeMode: Boolean? = true, volume: Boolean? = true, sampleRate: Boolean? = true, sampleSize: Boolean? = true, echoCancellation: Boolean? = true, autoGainControl: Boolean? = true, noiseSuppression: Boolean? = true, latency: Boolean? = true, channelCount: Boolean? = true, deviceId: Boolean? = true, groupId: Boolean? = true): MediaTrackSupportedConstraints {\n   val o = js(\"({})\")\n

    o[\"width\"] = width\n   o[\"height\"] = height\n   o[\"aspectRatio\"] = aspectRatio\n   o[\"frameRate\"] = frameRate\n   o[\"facingMode\"] = facingMode\n   o[\"resizeMode\"] = resizeMode\n   o[\"volume\"] = volume\n   o[\"sampleRate\"] = sampleRate\n   o[\"sampleSize\"] = sampleSize\n   o[\"echoCancellation\"] = echoCancellation\n   o[\"autoGainControl\"] = autoGainControl\n   o[\"noiseSuppression\"] = noiseSuppression\n   o[\"latency\"] = latency\n   o[\"channelCount\"] = channelCount\n   o[\"deviceId\"] = deviceId\n   o[\"groupId\"] = groupId\n   return o\n}\n\npublic external interface MediaTrackCapabilities {\n   var width: ULongRange?\n   get() = definedExternally\n   set(value) = definedExternally\n   var height: ULongRange?\n   get() = definedExternally\n   set(value) = definedExternally\n   var aspectRatio: DoubleRange?\n   get() = definedExternally\n   set(value) = definedExternally\n   var frameRate: DoubleRange?\n

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    get() = definedExternally\n    set(value) = definedExternally\n    var facingMode: Array<String>?\n    get() = definedExternally\n    set(value) = definedExternally\n    var resizeMode: Array<String>?\n    get() = definedExternally\n    set(value) = definedExternally\n    var volume: DoubleRange?\n    get() = definedExternally\n    set(value) = definedExternally\n    var sampleRate: ULongRange?\n    get() = definedExternally\n    set(value) = definedExternally\n    var sampleSize: ULongRange?\n    get() = definedExternally\n    set(value) = definedExternally\n    var echoCancellation: Array<Boolean>?\n    get() = definedExternally\n    set(value) = definedExternally\n    var autoGainControl: Array<Boolean>?\n    get() = definedExternally\n    set(value) = definedExternally\n    var noiseSuppression: Array<Boolean>?\n    get() = definedExternally\n    set(value) = definedExternally\n    var latency: DoubleRange?\n
    get() = definedExternally\n    set(value) = definedExternally\n    var channelCount: ULongRange?\n    get() = definedExternally\n    set(value) = definedExternally\n    var deviceId: String?\n    get() = definedExternally\n    set(value) = definedExternally\n    var groupId: String?\n    get() = definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackCapabilities(width: ULongRange? = undefined, height: ULongRange? = undefined, aspectRatio: DoubleRange? = undefined, frameRate: DoubleRange? = undefined, facingMode: Array<String>? = undefined, resizeMode: Array<String>? = undefined, volume: DoubleRange? = undefined, sampleRate: ULongRange? = undefined, sampleSize: ULongRange? = undefined, echoCancellation: Array<Boolean>? = undefined, autoGainControl: Array<Boolean>? = undefined, noiseSuppression: Array<Boolean>? = undefined, latency: DoubleRange? = undefined, channelCount: ULongRange? = undefined,
    deviceId: String? = undefined, groupId: String? = undefined): MediaTrackCapabilities {\n    val o = js(\"({})\")\n    o[\"width\"] = width\n    o[\"height\"] = height\n    o[\"aspectRatio\"] = aspectRatio\n    o[\"frameRate\"] = frameRate\n    o[\"facingMode\"] = facingMode\n    o[\"resizeMode\"] = resizeMode\n    o[\"volume\"] = volume\n    o[\"sampleRate\"] = sampleRate\n    o[\"sampleSize\"] = sampleSize\n    o[\"echoCancellation\"] = echoCancellation\n    o[\"autoGainControl\"] = autoGainControl\n    o[\"noiseSuppression\"] = noiseSuppression\n    o[\"latency\"] = latency\n    o[\"channelCount\"] = channelCount\n    o[\"deviceId\"] = deviceId\n    o[\"groupId\"] = groupId\n    return o\n}\n\n/**\n * Exposes the JavaScript [MediaTrackConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaTrackConstraints) to Kotlin\n */\npublic external interface MediaTrackConstraints : MediaTrackConstraintSet {\n    var advanced: Array<MediaTrackConstraintSet>?\n    get() = definedExternally\n    set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackConstraints(advanced: Array<MediaTrackConstraintSet>? = undefined, width: dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined): MediaTrackConstraints {\n    val o = js(\"({})\")\n    o[\"advanced\"] = advanced\n    o[\"width\"] = width\n    o[\"height\"] = height\n    o[\"aspectRatio\"] = aspectRatio\n    o[\"frameRate\"] = frameRate\n    o[\"facingMode\"] = facingMode\n    o[\"resizeMode\"] = resizeMode\n    o[\"volume\"]
    = volume\n    o[\"sampleRate\"] = sampleRate\n    o[\"sampleSize\"] = sampleSize\n    o[\"echoCancellation\"] = echoCancellation\n    o[\"autoGainControl\"] = autoGainControl\n    o[\"noiseSuppression\"] = noiseSuppression\n    o[\"latency\"] = latency\n    o[\"channelCount\"] = channelCount\n    o[\"deviceId\"] = deviceId\n    o[\"groupId\"] = groupId\n    return o\n}\n\npublic external interface MediaTrackConstraintSet {\n    var width: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n    var height: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n    var aspectRatio: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n    var frameRate: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n    var facingMode: dynamic\n    get() = definedExternally\n    set(value) = definedExternally\n    var resizeMode: dynamic\n    get() = definedExternally\n
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set(value) = definedExternally\n var volume: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var sampleRate: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var sampleSize: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var echoCancellation: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var autoGainControl: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var noiseSuppression: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var latency: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var channelCount: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var deviceId: dynamic\n get() = definedExternally\n set(value) = definedExternally\n var groupId: dynamic\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackConstraintSet(width: dynamic = undefined, height: dynamic = undefined, aspectRatio: dynamic = undefined, frameRate: dynamic = undefined, facingMode: dynamic = undefined, resizeMode: dynamic = undefined, volume: dynamic = undefined, sampleRate: dynamic = undefined, sampleSize: dynamic = undefined, echoCancellation: dynamic = undefined, autoGainControl: dynamic = undefined, noiseSuppression: dynamic = undefined, latency: dynamic = undefined, channelCount: dynamic = undefined, deviceId: dynamic = undefined, groupId: dynamic = undefined): MediaTrackConstraintSet {\n val o = js(\"({})\")\n o[\"width\"] = width\n o[\"height\"] = height\n o[\"aspectRatio\"] = aspectRatio\n o[\"frameRate\"] = frameRate\n o[\"facingMode\"] = facingMode\n o[\"resizeMode\"] = resizeMode\n o[\"volume\"] = volume\n o[\"sampleRate\"] = sampleRate\n o[\"sampleSize\"] = sampleSize\n o[\"echoCancellation\"] = echoCancellation\n o[\"autoGainControl\"] = autoGainControl\n o[\"noiseSuppression\"] = noiseSuppression\n o[\"latency\"] = latency\n o[\"channelCount\"] = channelCount\n o[\"deviceId\"] = deviceId\n o[\"groupId\"] = groupId\n return o\n}\n\n/**\n * Exposes the JavaScript [MediaTrackSettings](https://developer.mozilla.org/en/docs/Web/API/MediaTrackSettings) to Kotlin\n */\npublic external interface MediaTrackSettings {\n var width: Int?\n get() = definedExternally\n set(value) = definedExternally\n var height: Int?\n get() = definedExternally\n set(value) = definedExternally\n var aspectRatio: Double?\n get() = definedExternally\n set(value) = definedExternally\n var frameRate: Double?\n get() = definedExternally\n set(value) = definedExternally\n var facingMode: String?\n get() = definedExternally\n set(value) = definedExternally\n var resizeMode: String?\n get() = definedExternally\n set(value) = definedExternally\n var volume: Double?\n get() = definedExternally\n set(value) = definedExternally\n var sampleRate: Int?\n get() = definedExternally\n set(value) = definedExternally\n var sampleSize: Int?\n get() = definedExternally\n set(value) = definedExternally\n var echoCancellation: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var autoGainControl: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var noiseSuppression: Boolean?\n get() = definedExternally\n set(value) = definedExternally\n var latency: Double?\n get() = definedExternally\n set(value) = definedExternally\n var channelCount: Int?\n get() = definedExternally\n set(value) = definedExternally\n var deviceId: String?\n get() = definedExternally\n set(value) = definedExternally\n var groupId: String?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaTrackSettings(width: Int? = undefined, height: Int? = undefined, aspectRatio: Double? = undefined, frameRate: Double? = undefined, facingMode: String? = undefined, resizeMode: String? = undefined, volume: Double? = undefined, sampleRate: Int? = undefined, sampleSize: Int? = undefined, echoCancellation: Boolean? = undefined, autoGainControl: Boolean? = undefined, noiseSuppression: Boolean? = undefined, latency: Double? = undefined, channelCount: Int? = undefined, deviceId: String? = undefined, groupId: String? = undefined): MediaTrackSettings {\n val o = js(\"({})\")\n o[\"width\"] = width\n o[\"height\"] = height\n o[\"aspectRatio\"] = aspectRatio\n o[\"frameRate\"] = frameRate\n o[\"facingMode\"] = facingMode\n o[\"resizeMode\"] =

resizeMode\n o[\"volume\"] = volume\n o[\"sampleRate\"] = sampleRate\n o[\"sampleSize\"] = sampleSize\n o[\"echoCancellation\"] = echoCancellation\n o[\"autoGainControl\"] = autoGainControl\n o[\"noiseSuppression\"] = noiseSuppression\n o[\"latency\"] = latency\n o[\"channelCount\"] = channelCount\n o[\"deviceId\"] = deviceId\n o[\"groupId\"] = groupId\n return o\n}\n\n/**\n * Exposes the JavaScript [MediaStreamTrackEvent](https://developer.mozilla.org/en/docs/Web/API/MediaStreamTrackEvent) to Kotlin\n */\npublic external open class MediaStreamTrackEvent(type: String, eventInitDict: MediaStreamTrackEventInit) : Event {\n open val track: MediaStreamTrack\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface MediaStreamTrackEventInit : EventInit {\n var track: MediaStreamTrack?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaStreamTrackEventInit(track: MediaStreamTrack?, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): MediaStreamTrackEventInit {\n val o = js(\"({})\")\n o[\"track\"] = track\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\npublic external open class OverconstrainedErrorEvent(type: String, eventInitDict: OverconstrainedErrorEventInit) : Event {\n open val error: dynamic\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface OverconstrainedErrorEventInit : EventInit {\n var error: dynamic /* = null */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun OverconstrainedErrorEventInit(error: dynamic = null, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): OverconstrainedErrorEventInit {\n val o = js(\"({})\")\n o[\"error\"] = error\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [MediaDevices](https://developer.mozilla.org/en/docs/Web/API/MediaDevices) to Kotlin\n */\npublic external abstract class MediaDevices : EventTarget {\n open var ondevicechange: ((Event) -> dynamic)?\n fun enumerateDevices(): Promise<Array<MediaDeviceInfo>>\n fun getSupportedConstraints(): MediaTrackSupportedConstraints\n fun getUserMedia(constraints: MediaStreamConstraints = definedExternally): Promise<MediaStream>\n}\n\n/**\n * Exposes the JavaScript [MediaDeviceInfo](https://developer.mozilla.org/en/docs/Web/API/MediaDeviceInfo) to Kotlin\n */\npublic external abstract class MediaDeviceInfo {\n open val deviceId: String\n open val kind: MediaDeviceKind\n open val label: String\n open val groupId: String\n fun toJSON(): dynamic\n}\n\npublic external abstract class InputDeviceInfo : MediaDeviceInfo {\n fun getCapabilities(): MediaTrackCapabilities\n}\n\n/**\n * Exposes the JavaScript [MediaStreamConstraints](https://developer.mozilla.org/en/docs/Web/API/MediaStreamConstraints) to Kotlin\n */\npublic external interface MediaStreamConstraints {\n var video: dynamic /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var audio: dynamic /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun MediaStreamConstraints(video: dynamic = false, audio: dynamic = false): MediaStreamConstraints {\n val o = js(\"({})\")\n o[\"video\"] = video\n o[\"audio\"] = audio\n return o\n}\n\npublic external interface ConstrainablePattern {\n var onoverconstrained: ((Event) -> dynamic)?\n get() = definedExternally\n set(value) = definedExternally\n fun getCapabilities(): Capabilities\n fun getConstraints(): Constraints\n fun getSettings(): Settings\n fun applyConstraints(constraints: Constraints = definedExternally): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript [DoubleRange](https://developer.mozilla.org/en/docs/Web/API/DoubleRange) to Kotlin\n */\npublic external interface DoubleRange {\n var max: Double?\n get() = definedExternally\n set(value) = definedExternally\n var min: Double?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun DoubleRange(max: Double? = undefined, min: Double? = undefined): DoubleRange {\n val o = js(\"({})\")\n o[\"max\"] = max\n o[\"min\"] = min\n

return o\n}\n\npublic external interface ConstrainDoubleRange : DoubleRange {\n   var exact: Double?\n   get() = definedExternally\n
    set(value) = definedExternally\n   var ideal: Double?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDoubleRange(exact: Double? = undefined, ideal: Double? = undefined, max: Double? = undefined, min: Double? = undefined): ConstrainDoubleRange {\n   val o = js(\"({})\")\n   o[\"exact\"] = exact\n   o[\"ideal\"] = ideal\n   o[\"max\"] = max\n   o[\"min\"] = min\n   return o\n}\n\npublic external interface ULongRange {\n   var max: Int?\n   get() = definedExternally\n   set(value) = definedExternally\n   var min: Int?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ULongRange(max: Int? = undefined, min: Int? = undefined): ULongRange {\n   val o = js(\"({})\")\n   o[\"max\"] = max\n   o[\"min\"] = min\n   return o\n}\n\npublic external interface ConstrainULongRange : ULongRange {\n   var exact: Int?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ideal: Int?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainULongRange(exact: Int? = undefined, ideal: Int? = undefined, max: Int? = undefined, min: Int? = undefined): ConstrainULongRange {\n   val o = js(\"({})\")\n   o[\"exact\"] = exact\n   o[\"ideal\"] = ideal\n   o[\"max\"] = max\n   o[\"min\"] = min\n   return o\n}\n\n/**\n * Exposes the JavaScript [ConstrainBooleanParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainBooleanParameters) to Kotlin\n */\npublic external interface ConstrainBooleanParameters {\n   var exact: Boolean?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ideal: Boolean?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainBooleanParameters(exact:
 Boolean? = undefined, ideal: Boolean? = undefined): ConstrainBooleanParameters {\n   val o = js(\"({})\")\n   o[\"exact\"] = exact\n   o[\"ideal\"] = ideal\n   return o\n}\n\n/**\n * Exposes the JavaScript [ConstrainDOMStringParameters](https://developer.mozilla.org/en/docs/Web/API/ConstrainDOMStringParameters) to Kotlin\n */\npublic external interface ConstrainDOMStringParameters {\n   var exact: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var ideal: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstrainDOMStringParameters(exact: dynamic = undefined, ideal: dynamic = undefined): ConstrainDOMStringParameters {\n   val o = js(\"({})\")\n   o[\"exact\"] = exact\n   o[\"ideal\"] = ideal\n   return o\n}\n\npublic external interface Capabilities\n\n@kotlin.internal.InlineOnly\npublic inline fun Capabilities(): Capabilities {\n   val o = js(\"({})\")\n
    return o\n}\n\npublic external interface Settings\n\n@kotlin.internal.InlineOnly\npublic inline fun Settings(): Settings {\n   val o = js(\"({})\")\n   return o\n}\n\npublic external interface ConstraintSet\n\n@kotlin.internal.InlineOnly\npublic inline fun ConstraintSet(): ConstraintSet {\n   val o = js(\"({})\")\n   return o\n}\n\npublic external interface Constraints : ConstraintSet {\n   var advanced: Array<ConstraintSet>?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun Constraints(advanced: Array<ConstraintSet>? = undefined): Constraints {\n   val o = js(\"({})\")\n   o[\"advanced\"] = advanced\n   return o\n}\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface MediaStreamTrackState {\n   companion object\n}\n\npublic inline val MediaStreamTrackState.Companion.LIVE: MediaStreamTrackState get() = \"live\".asDynamic().unsafeCast<MediaStreamTrackState>()\n\npublic
 inline val MediaStreamTrackState.Companion.ENDED: MediaStreamTrackState get() = \"ended\".asDynamic().unsafeCast<MediaStreamTrackState>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface VideoFacingModeEnum {\n   companion object\n}\n\npublic inline val VideoFacingModeEnum.Companion.USER: VideoFacingModeEnum get() = \"user\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val

VideoFacingModeEnum.Companion.ENVIRONMENT: VideoFacingModeEnum get() = \"environment\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val VideoFacingModeEnum.Companion.LEFT: VideoFacingModeEnum get() = \"left\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\npublic inline val VideoFacingModeEnum.Companion.RIGHT: VideoFacingModeEnum get() = \"right\".asDynamic().unsafeCast<VideoFacingModeEnum>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface VideoResizeModeEnum {\n companion object\n}\n\npublic inline val VideoResizeModeEnum.Companion.NONE: VideoResizeModeEnum get() = \"none\".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\npublic inline val VideoResizeModeEnum.Companion.CROP_AND_SCALE: VideoResizeModeEnum get() = \"crop-and-scale\".asDynamic().unsafeCast<VideoResizeModeEnum>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface MediaDeviceKind {\n companion object\n}\n\npublic inline val MediaDeviceKind.Companion.AUDIOINPUT: MediaDeviceKind get() = \"audioinput\".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val MediaDeviceKind.Companion.AUDIOOUTPUT: MediaDeviceKind get() = \"audiooutput\".asDynamic().unsafeCast<MediaDeviceKind>()\n\npublic inline val MediaDeviceKind.Companion.VIDEOINPUT: MediaDeviceKind get() = \"videoinput\".asDynamic().unsafeCast<MediaDeviceKind>()","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.pointerevents\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\npublic external interface PointerEventInit : MouseEventInit {\n var pointerId: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var width: Double? /* = 1.0 */\n get() = definedExternally\n set(value) = definedExternally\n var height: Double? /* = 1.0 */\n get() = definedExternally\n set(value) = definedExternally\n var pressure: Float? /* = 0f */\n get() = definedExternally\n set(value) = definedExternally\n var tangentialPressure: Float? /* = 0f */\n get() = definedExternally\n set(value) = definedExternally\n var tiltX: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var tiltY: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var twist: Int? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var pointerType: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n var isPrimary: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun PointerEventInit(pointerId: Int? = 0, width: Double? = 1.0, height: Double? = 1.0, pressure: Float? = 0f, tangentialPressure: Float? = 0f, tiltX: Int? = 0, tiltY: Int? = 0, twist: Int? = 0, pointerType: String? = \"\", isPrimary: Boolean? = false, screenX: Int? = 0, screenY: Int? = 0, clientX: Int? = 0, clientY: Int? = 0, button: Short? = 0, buttons: Short? = 0, relatedTarget: EventTarget? = null, region: String? = null, ctrlKey: Boolean? = false, shiftKey: Boolean? = false, altKey: Boolean? = false, metaKey: Boolean? = false, modifierAltGraph: Boolean? = false, modifierCapsLock: Boolean? = false, modifierFn: Boolean? = false, modifierFnLock: Boolean? = false, modifierHyper: Boolean? = false, modifierNumLock: Boolean? = false, modifierScrollLock: Boolean? = false, modifierSuper: Boolean? = false, modifierSymbol: Boolean? = false, modifierSymbolLock: Boolean? = false, view: Window? = null, detail: Int? = 0, bubbles: Boolean? = false,

cancelable: Boolean? = false, composed: Boolean? = false): PointerEventInit {\n val o = js(\"({})\")\n o[\"pointerId\"] = pointerId\n o[\"width\"] = width\n o[\"height\"] = height\n o[\"pressure\"] = pressure\n o[\"tangentialPressure\"] = tangentialPressure\n o[\"tiltX\"] = tiltX\n o[\"tiltY\"] = tiltY\n o[\"twist\"] = twist\n o[\"pointerType\"] = pointerType\n o[\"isPrimary\"] = isPrimary\n o[\"screenX\"] = screenX\n o[\"screenY\"] = screenY\n o[\"clientX\"] = clientX\n o[\"clientY\"] = clientY\n o[\"button\"] = button\n o[\"buttons\"] = buttons\n o[\"relatedTarget\"] = relatedTarget\n o[\"region\"] = region\n o[\"ctrlKey\"] = ctrlKey\n o[\"shiftKey\"] = shiftKey\n o[\"altKey\"] = altKey\n o[\"metaKey\"] = metaKey\n o[\"modifierAltGraph\"] = modifierAltGraph\n o[\"modifierCapsLock\"] = modifierCapsLock\n o[\"modifierFn\"] = modifierFn\n o[\"modifierFnLock\"] = modifierFnLock\n o[\"modifierHyper\"] = modifierHyper\n o[\"modifierNumLock\"] = modifierNumLock\n o[\"modifierScrollLock\"] = modifierScrollLock\n o[\"modifierSuper\"] = modifierSuper\n o[\"modifierSymbol\"] = modifierSymbol\n o[\"modifierSymbolLock\"] = modifierSymbolLock\n o[\"view\"] = view\n o[\"detail\"] = detail\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/**\n * Exposes the JavaScript [PointerEvent](https://developer.mozilla.org/en/docs/Web/API/PointerEvent) to Kotlin\n */\npublic external open class PointerEvent(type: String, eventInitDict: PointerEventInit = definedExternally) : MouseEvent {\n open val pointerId: Int\n open val width: Double\n open val height: Double\n open val pressure: Float\n open val tangentialPressure: Float\n open val tiltX: Int\n open val tiltY: Int\n open val twist: Int\n open val pointerType: String\n open val isPrimary: Boolean\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.dom.svg\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript [SVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGElement) to Kotlin\n */\npublic external abstract class SVGElement : Element, ElementCSSInlineStyle, GlobalEventHandlers, SVGElementInstance {\n open val dataset: DOMStringMap\n open val ownerSVGElement: SVGSVGElement?\n open val viewportElement: SVGElement?\n open var tabIndex: Int\n fun focus()\n fun blur()\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface SVGBoundingBoxOptions {\n var fill: Boolean? /* = true */\n get() = definedExternally\n set(value) = definedExternally\n var stroke: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var markers: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var clipped: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun SVGBoundingBoxOptions(fill: Boolean? =

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true, stroke: Boolean? = false, markers: Boolean? = false, clipped: Boolean? = false): SVGBoundingBoxOptions {\n  val o = js(\"({})\")\n    o[\"fill\"] = fill\n    o[\"stroke\"] = stroke\n    o[\"markers\"] = markers\n    o[\"clipped\"] = clipped\n
    return o\n}\n\n/**\n * Exposes the JavaScript [SVGGraphicsElement](https://developer.mozilla.org/en/docs/Web/API/SVGGraphicsElement) to Kotlin\n */\npublic external abstract class SVGGraphicsElement : SVGElement, SVGTests {\n    open val transform: SVGAnimatedTransformList\n    fun getBBox(options: SVGBoundingBoxOptions = definedExternally): DOMRect\n    fun getCTM(): DOMMatrix?\n    fun getScreenCTM(): DOMMatrix?\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n

        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [SVGGeometryElement](https://developer.mozilla.org/en/docs/Web/API/SVGGeometryElement) to Kotlin\n */\npublic external abstract class SVGGeometryElement : SVGGraphicsElement {\n    open val pathLength: SVGAnimatedNumber\n    fun isPointInFill(point: DOMPoint): Boolean\n    fun isPointInStroke(point: DOMPoint): Boolean\n    fun getTotalLength(): Float\n    fun getPointAtLength(distance: Float): DOMPoint\n\n    companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n
        val DOCUMENT_TYPE_NODE: Short\n        val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n        val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n        val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [SVGNumber](https://developer.mozilla.org/en/docs/Web/API/SVGNumber) to Kotlin\n */\npublic external abstract class SVGNumber {\n    open var value: Float\n}\n\n/**\n * Exposes the JavaScript [SVGLength](https://developer.mozilla.org/en/docs/Web/API/SVGLength) to Kotlin\n */\npublic external abstract class SVGLength {\n    open val unitType: Short\n    open var value: Float\n    open var valueInSpecifiedUnits: Float\n    open var valueAsString: String\n    fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)\n
    fun convertToSpecifiedUnits(unitType: Short)\n\n    companion object {\n        val SVG_LENGTHTYPE_UNKNOWN: Short\n        val SVG_LENGTHTYPE_NUMBER: Short\n        val SVG_LENGTHTYPE_PERCENTAGE: Short\n        val SVG_LENGTHTYPE_EMS: Short\n        val SVG_LENGTHTYPE_EXS: Short\n        val SVG_LENGTHTYPE_PX: Short\n        val SVG_LENGTHTYPE_CM: Short\n        val SVG_LENGTHTYPE_MM: Short\n        val SVG_LENGTHTYPE_IN: Short\n        val SVG_LENGTHTYPE_PT: Short\n        val SVG_LENGTHTYPE_PC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript [SVGAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAngle) to Kotlin\n */\npublic external abstract class SVGAngle {\n    open val unitType: Short\n    open var value: Float\n    open var valueInSpecifiedUnits: Float\n    open var valueAsString: String\n    fun newValueSpecifiedUnits(unitType: Short, valueInSpecifiedUnits: Float)\n    fun convertToSpecifiedUnits(unitType: Short)\n\n    companion object {\n        val
```

SVG_ANGLETYPE_UNKNOWN:
Short\n val SVG_ANGLETYPE_UNSPECIFIED: Short\n val SVG_ANGLETYPE_DEG: Short\n val SVG_ANGLETYPE_RAD: Short\n val SVG_ANGLETYPE_GRAD: Short\n }\n}\n\npublic external abstract class SVGNameList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: dynamic): dynamic\n fun insertItemBefore(newItem: dynamic, index: Int): dynamic\n fun replaceItem(newItem: dynamic, index: Int): dynamic\n fun removeItem(index: Int): dynamic\n fun appendItem(newItem: dynamic): dynamic\n fun getItem(index: Int): dynamic\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.get(index: Int): dynamic = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNameList.set(index: Int, newItem: dynamic) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGNumberList) to Kotlin\n */\npublic external abstract class SVGNumberList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: SVGNumber): SVGNumber\n fun insertItemBefore(newItem: SVGNumber, index: Int): SVGNumber\n fun replaceItem(newItem: SVGNumber, index: Int): SVGNumber\n fun removeItem(index: Int): SVGNumber\n fun appendItem(newItem: SVGNumber): SVGNumber\n fun getItem(index: Int): SVGNumber\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.get(index: Int): SVGNumber? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGNumberList.set(index: Int, newItem: SVGNumber) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGLengthList) to Kotlin\n */\npublic external abstract class SVGLengthList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: SVGLength): SVGLength\n fun insertItemBefore(newItem: SVGLength, index: Int): SVGLength\n fun replaceItem(newItem: SVGLength, index: Int): SVGLength\n fun removeItem(index: Int): SVGLength\n fun appendItem(newItem: SVGLength): SVGLength\n fun getItem(index: Int): SVGLength\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.get(index: Int): SVGLength? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGLengthList.set(index: Int, newItem: SVGLength) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGAnimatedBoolean](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedBoolean) to Kotlin\n */\npublic external abstract class SVGAnimatedBoolean {\n open var baseVal: Boolean\n open val animVal: Boolean\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedEnumeration](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedEnumeration) to Kotlin\n */\npublic external abstract class SVGAnimatedEnumeration {\n open var baseVal: Short\n open val animVal: Short\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedInteger](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedInteger) to Kotlin\n */\npublic external abstract class SVGAnimatedInteger {\n open var baseVal: Int\n open val animVal: Int\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedNumber](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumber) to Kotlin\n */\npublic external abstract class SVGAnimatedNumber {\n open var baseVal: Float\n open val animVal: Float\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedLength](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLength) to Kotlin\n */\npublic external abstract class SVGAnimatedLength {\n open val baseVal: SVGLength\n open val animVal: SVGLength\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedAngle](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedAngle) to Kotlin\n */\npublic external abstract class SVGAnimatedAngle {\n open val baseVal: SVGAngle\n open val animVal: SVGAngle\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedString](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedString) to Kotlin\n */\npublic external abstract class SVGAnimatedString {\n open var baseVal: String\n open val animVal: String\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedRect](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedRect)

to Kotlin\n */\npublic external abstract class SVGAnimatedRect {\n   open val baseVal: DOMRect\n   open val animVal: DOMRectReadOnly\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedNumberList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedNumberList) to Kotlin\n */\npublic external abstract class SVGAnimatedNumberList {\n   open val baseVal: SVGNumberList\n   open val animVal: SVGNumberList\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedLengthList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedLengthList) to Kotlin\n */\npublic external abstract class
SVGAnimatedLengthList {\n   open val baseVal: SVGLengthList\n   open val animVal: SVGLengthList\n}\n\n/**\n * Exposes the JavaScript [SVGStringList](https://developer.mozilla.org/en/docs/Web/API/SVGStringList) to Kotlin\n */\npublic external abstract class SVGStringList {\n   open val length: Int\n   open val numberOfItems: Int\n   fun clear()\n   fun initialize(newItem: String): String\n   fun insertItemBefore(newItem: String, index: Int): String\n   fun replaceItem(newItem: String, index: Int): String\n   fun removeItem(index: Int): String\n   fun appendItem(newItem: String): String\n   fun getItem(index: Int): String\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.get(index: Int): String? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGStringList.set(index: Int, newItem: String) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGUnitTypes](https://developer.mozilla.org/en/docs/Web/API/SVGUnitTypes)
to Kotlin\n */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface SVGUnitTypes {\n   companion object {\n   val SVG_UNIT_TYPE_UNKNOWN: Short\n   val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n   val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGTests](https://developer.mozilla.org/en/docs/Web/API/SVGTests) to Kotlin\n */\npublic external interface SVGTests {\n   val requiredExtensions: SVGStringList\n   val systemLanguage: SVGStringList\n}\n\npublic external interface SVGFitToViewBox {\n   val viewBox: SVGAnimatedRect\n   val preserveAspectRatio: SVGAnimatedPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript [SVGZoomAndPan](https://developer.mozilla.org/en/docs/Web/API/SVGZoomAndPan) to Kotlin\n */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface SVGZoomAndPan {\n   var zoomAndPan: Short\n\n   companion object {\n   val SVG_ZOOMANDPAN_UNKNOWN: Short\n   val SVG_ZOOMANDPAN_DISABLE: Short\n   val SVG_ZOOMANDPAN_MAGNIFY: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGURIReference](https://developer.mozilla.org/en/docs/Web/API/SVGURIReference) to Kotlin\n */\npublic external interface SVGURIReference {\n   val href: SVGAnimatedString\n}\n\n/**\n * Exposes the JavaScript [SVGSVGElement](https://developer.mozilla.org/en/docs/Web/API/SVGSVGElement) to Kotlin\n */\npublic external abstract class SVGSVGElement : SVGGraphicsElement, SVGFitToViewBox, SVGZoomAndPan, WindowEventHandlers {\n   open val x: SVGAnimatedLength\n   open val y: SVGAnimatedLength\n   open val width: SVGAnimatedLength\n   open val height: SVGAnimatedLength\n   open var currentScale: Float\n   open val currentTranslate: DOMPointReadOnly\n   fun getIntersectionList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\n   fun getEnclosureList(rect: DOMRectReadOnly, referenceElement: SVGElement?): NodeList\n   fun checkIntersection(element:
SVGElement, rect: DOMRectReadOnly): Boolean\n   fun checkEnclosure(element: SVGElement, rect: DOMRectReadOnly): Boolean\n   fun deselectAll()\n   fun createSVGNumber(): SVGNumber\n   fun createSVGLength(): SVGLength\n   fun createSVGAngle(): SVGAngle\n   fun createSVGPoint(): DOMPoint\n   fun createSVGMatrix(): DOMMatrix\n   fun createSVGRect(): DOMRect\n   fun createSVGTransform(): SVGTransform\n   fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n   fun getElementById(elementId: String): Element\n   fun suspendRedraw(maxWaitMilliseconds: Int): Int\n   fun unsuspendRedraw(suspendHandleID: Int)\n   fun unsuspendRedrawAll()\n   fun forceRedraw()\n\n   companion

object {\n val SVG_ZOOMANDPAN_UNKNOWN: Short\n val SVG_ZOOMANDPAN_DISABLE: Short\n val SVG_ZOOMANDPAN_MAGNIFY: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGGElement](https://developer.mozilla.org/en/docs/Web/API/SVGGElement) to Kotlin\n */\npublic external abstract class SVGGElement : SVGGraphicsElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class SVGUnknownElement : SVGGraphicsElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE:
Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGDefsElement](https://developer.mozilla.org/en/docs/Web/API/SVGDefsElement) to Kotlin\n */\npublic external abstract class SVGDefsElement : SVGGraphicsElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val
DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGDescElement](https://developer.mozilla.org/en/docs/Web/API/SVGDescElement) to Kotlin\n */\npublic external abstract class SVGDescElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val

DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGMetadataElement](https://developer.mozilla.org/en/docs/Web/API/SVGMetadataElement) to Kotlin\n */\npublic external abstract class SVGMetadataElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGTitleElement](https://developer.mozilla.org/en/docs/Web/API/SVGTitleElement) to Kotlin\n */\npublic external abstract class SVGTitleElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGSymbolElement](https://developer.mozilla.org/en/docs/Web/API/SVGSymbolElement) to Kotlin\n */\npublic external abstract class SVGSymbolElement : SVGGraphicsElement, SVGFitToViewBox {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGUseElement](https://developer.mozilla.org/en/docs/Web/API/SVGUseElement) to Kotlin\n */\npublic external abstract class SVGUseElement : SVGGraphicsElement, SVGURIReference {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n open val instanceRoot: SVGElement?\n open val animatedInstanceRoot: SVGElement?\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n

val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external open class SVGUseElementShadowRoot : ShadowRoot {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE:
Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY:
Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface SVGElementInstance {\n val correspondingElement: SVGElement?\n get() = definedExternally\n val correspondingUseElement: SVGUseElement?\n get() = definedExternally\n}\n\npublic external open class ShadowAnimation(source: dynamic, newTarget: dynamic) {\n open val sourceAnimation: dynamic\n}\n\n/**\n * Exposes the JavaScript [SVGSwitchElement](https://developer.mozilla.org/en/docs/Web/API/SVGSwitchElement) to Kotlin\n */\npublic external abstract class SVGSwitchElement : SVGGraphicsElement {\n companion
object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE:
Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:
Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external interface GetSVGDocument {\n fun getSVGDocument(): Document\n}\n\n/**\n * Exposes the JavaScript [SVGStyleElement](https://developer.mozilla.org/en/docs/Web/API/SVGStyleElement) to Kotlin\n */\npublic external
abstract class SVGStyleElement : SVGElement, LinkStyle {\n open var type: String\n open var media: String\n open var title: String\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGTransform](https://developer.mozilla.org/en/docs/Web/API/SVGTransform)
to Kotlin\n */\npublic external abstract class SVGTransform {\n open val type: Short\n open val matrix:
DOMMatrix\n open val angle: Float\n fun setMatrix(matrix: DOMMatrixReadOnly)\n fun setTranslate(tx: Float, ty: Float)\n fun setScale(sx: Float, sy: Float)\n fun setRotate(angle: Float, cx: Float, cy: Float)\n fun setSkewX(angle: Float)\n fun setSkewY(angle: Float)\n\n companion object {\n val

SVG_TRANSFORM_UNKNOWN: Short\n val SVG_TRANSFORM_MATRIX: Short\n val SVG_TRANSFORM_TRANSLATE: Short\n val SVG_TRANSFORM_SCALE: Short\n val SVG_TRANSFORM_ROTATE: Short\n val SVG_TRANSFORM_SKEWX: Short\n val SVG_TRANSFORM_SKEWY: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGTransformList) to Kotlin\n */\npublic external abstract class SVGTransformList {\n open val length: Int\n open val numberOfItems: Int\n fun clear()\n fun initialize(newItem: SVGTransform): SVGTransform\n fun insertItemBefore(newItem: SVGTransform, index: Int): SVGTransform\n fun replaceItem(newItem: SVGTransform, index: Int): SVGTransform\n fun removeItem(index: Int): SVGTransform\n fun appendItem(newItem: SVGTransform): SVGTransform\n fun createSVGTransformFromMatrix(matrix: DOMMatrixReadOnly): SVGTransform\n fun consolidate(): SVGTransform?\n fun getItem(index: Int): SVGTransform\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGTransformList.get(index: Int): SVGTransform? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline operator fun SVGTransformList.set(index: Int, newItem: SVGTransform) { asDynamic()[index] = newItem }\n\n/**\n * Exposes the JavaScript [SVGAnimatedTransformList](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedTransformList) to Kotlin\n */\npublic external abstract class SVGAnimatedTransformList {\n open val baseVal: SVGTransformList\n open val animVal: SVGTransformList\n}\n\n/**\n * Exposes the JavaScript [SVGPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGPreserveAspectRatio) to Kotlin\n */\npublic external abstract class SVGPreserveAspectRatio {\n open var align: Short\n open var meetOrSlice: Short\n\n companion object {\n val SVG_PRESERVEASPECTRATIO_UNKNOWN: Short\n val SVG_PRESERVEASPECTRATIO_NONE: Short\n val SVG_PRESERVEASPECTRATIO_XMINYMIN: Short\n val SVG_PRESERVEASPECTRATIO_XMIDYMIN: Short\n val SVG_PRESERVEASPECTRATIO_XMAXYMIN: Short\n val SVG_PRESERVEASPECTRATIO_XMINYMID: Short\n val SVG_PRESERVEASPECTRATIO_XMIDYMID: Short\n val SVG_PRESERVEASPECTRATIO_XMAXYMID: Short\n val SVG_PRESERVEASPECTRATIO_XMINYMAX: Short\n val SVG_PRESERVEASPECTRATIO_XMIDYMAX: Short\n val SVG_PRESERVEASPECTRATIO_XMAXYMAX: Short\n val SVG_MEETORSLICE_UNKNOWN: Short\n val SVG_MEETORSLICE_MEET: Short\n val SVG_MEETORSLICE_SLICE: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGAnimatedPreserveAspectRatio](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPreserveAspectRatio) to Kotlin\n */\npublic external abstract class SVGAnimatedPreserveAspectRatio {\n open val baseVal: SVGPreserveAspectRatio\n open val animVal: SVGPreserveAspectRatio\n}\n\n/**\n * Exposes the JavaScript [SVGPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGPathElement) to Kotlin\n */\npublic external abstract class SVGPathElement : SVGGeometryElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGRectElement](https://developer.mozilla.org/en/docs/Web/API/SVGRectElement) to Kotlin\n

*/\npublic external abstract class SVGRectElement : SVGGeometryElement {\n   open val x: SVGAnimatedLength\n   open val y: SVGAnimatedLength\n   open val width: SVGAnimatedLength\n   open val height: SVGAnimatedLength\n   open val rx: SVGAnimatedLength\n   open val ry: SVGAnimatedLength\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE:
    Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGCircleElement](https://developer.mozilla.org/en/docs/Web/API/SVGCircleElement) to Kotlin\n */\npublic external abstract class SVGCircleElement : SVGGeometryElement {\n   open val cx: SVGAnimatedLength\n   open val cy: SVGAnimatedLength\n   open val r: SVGAnimatedLength\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGEllipseElement](https://developer.mozilla.org/en/docs/Web/API/SVGEllipseElement) to Kotlin\n */\npublic external abstract class SVGEllipseElement : SVGGeometryElement {\n   open val cx: SVGAnimatedLength\n   open val cy: SVGAnimatedLength\n   open val rx: SVGAnimatedLength\n   open val ry: SVGAnimatedLength\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGLineElement](https://developer.mozilla.org/en/docs/Web/API/SVGLineElement) to Kotlin\n */\npublic external abstract class SVGLineElement : SVGGeometryElement {\n   open
    val x1: SVGAnimatedLength\n   open val y1: SVGAnimatedLength\n   open val x2: SVGAnimatedLength\n   open val y2: SVGAnimatedLength\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n

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    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGMeshElement](https://developer.mozilla.org/en/docs/Web/API/SVGMeshElement)
 to Kotlin\n */\npublic external abstract class SVGMeshElement : SVGGeometryElement, SVGURIReference {\n
companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGAnimatedPoints](https://developer.mozilla.org/en/docs/Web/API/SVGAnimatedPoints)
 to Kotlin\n */\npublic external interface SVGAnimatedPoints {\n    val points: SVGPointList\n    val
animatedPoints: SVGPointList\n}\n\npublic external abstract class SVGPointList {\n    open val length: Int\n    open
val numberOfItems: Int\n    fun clear()\n    fun initialize(newItem: DOMPoint): DOMPoint\n    fun
insertItemBefore(newItem: DOMPoint, index: Int): DOMPoint\n    fun replaceItem(newItem: DOMPoint, index:
Int): DOMPoint\n    fun removeItem(index: Int): DOMPoint\n    fun appendItem(newItem: DOMPoint):
DOMPoint\n    fun getItem(index: Int): DOMPoint\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun
SVGPointList.get(index: Int): DOMPoint? = asDynamic()[index]\n\n@kotlin.internal.InlineOnly\npublic inline
operator fun SVGPointList.set(index: Int, newItem: DOMPoint) { asDynamic()[index] = newItem }\n\n/**\n *
Exposes the JavaScript
[SVGPolylineElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolylineElement) to Kotlin\n
*/\npublic
 external abstract class SVGPolylineElement : SVGGeometryElement, SVGAnimatedPoints {\n    companion object
{\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val TEXT_NODE: Short\n
val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE: Short\n        val
ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val COMMENT_NODE:
Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n        val
DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGPolygonElement](https://developer.mozilla.org/en/docs/Web/API/SVGPolygonElement) to
 Kotlin\n */\npublic external abstract class SVGPolygonElement : SVGGeometryElement, SVGAnimatedPoints {\n
 companion object {\n        val ELEMENT_NODE: Short\n        val ATTRIBUTE_NODE: Short\n        val
TEXT_NODE: Short\n        val CDATA_SECTION_NODE: Short\n        val ENTITY_REFERENCE_NODE:
Short\n        val ENTITY_NODE: Short\n        val PROCESSING_INSTRUCTION_NODE: Short\n        val
COMMENT_NODE: Short\n        val DOCUMENT_NODE: Short\n        val DOCUMENT_TYPE_NODE: Short\n
    val DOCUMENT_FRAGMENT_NODE: Short\n        val NOTATION_NODE: Short\n        val
DOCUMENT_POSITION_DISCONNECTED: Short\n        val DOCUMENT_POSITION_PRECEDING: Short\n
    val DOCUMENT_POSITION_FOLLOWING: Short\n        val DOCUMENT_POSITION_CONTAINS: Short\n
    val DOCUMENT_POSITION_CONTAINED_BY: Short\n        val
DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n    }\n}\n\n/**\n * Exposes the JavaScript
[SVGTextContentElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextContentElement)
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to Kotlin\n */\npublic external abstract class SVGTextContentElement : SVGGraphicsElement {\n open val textLength: SVGAnimatedLength\n open val lengthAdjust: SVGAnimatedEnumeration\n fun getNumberOfChars(): Int\n fun getComputedTextLength(): Float\n fun getSubStringLength(charnum: Int, nchars: Int): Float\n fun getStartPositionOfChar(charnum: Int): DOMPoint\n fun getEndPositionOfChar(charnum: Int): DOMPoint\n fun getExtentOfChar(charnum: Int): DOMRect\n fun getRotationOfChar(charnum: Int): Float\n fun getCharNumAtPosition(point: DOMPoint): Int\n fun selectSubString(charnum: Int, nchars: Int)\n\n companion object {\n val LENGTHADJUST_UNKNOWN: Short\n val LENGTHADJUST_SPACING: Short\n val LENGTHADJUST_SPACINGANDGLYPHS: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE:
Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGTextPositioningElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPositioningElement) to Kotlin\n */\npublic external abstract class SVGTextPositioningElement : SVGTextContentElement {\n open val x: SVGAnimatedLengthList\n open val y: SVGAnimatedLengthList\n open val dx: SVGAnimatedLengthList\n open val dy: SVGAnimatedLengthList\n open val rotate: SVGAnimatedNumberList\n\n companion object {\n val LENGTHADJUST_UNKNOWN: Short\n val LENGTHADJUST_SPACING: Short\n val LENGTHADJUST_SPACINGANDGLYPHS: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGTextElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextElement)
to Kotlin\n */\npublic external abstract class SVGTextElement : SVGTextPositioningElement {\n companion object {\n val LENGTHADJUST_UNKNOWN: Short\n val LENGTHADJUST_SPACING: Short\n val LENGTHADJUST_SPACINGANDGLYPHS: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC:
Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGTSpanElement](https://developer.mozilla.org/en/docs/Web/API/SVGTSpanElement) to Kotlin\n */\npublic

external abstract class SVGTSpanElement : SVGTextPositioningElement {\n   companion object {\n   val LENGTHADJUST_UNKNOWN: Short\n   val LENGTHADJUST_SPACING: Short\n   val LENGTHADJUST_SPACINGANDGLYPHS: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGTextPathElement](https://developer.mozilla.org/en/docs/Web/API/SVGTextPathElement) to Kotlin\n */\npublic external abstract class SVGTextPathElement : SVGTextContentElement, SVGURIReference {\n   open val startOffset: SVGAnimatedLength\n   open val method: SVGAnimatedEnumeration\n   open val spacing: SVGAnimatedEnumeration\n\n   companion object {\n   val TEXTPATH_METHODTYPE_UNKNOWN: Short\n   val TEXTPATH_METHODTYPE_ALIGN: Short\n   val TEXTPATH_METHODTYPE_STRETCH: Short\n   val TEXTPATH_SPACINGTYPE_UNKNOWN: Short\n   val TEXTPATH_SPACINGTYPE_AUTO: Short\n   val TEXTPATH_SPACINGTYPE_EXACT: Short\n   val LENGTHADJUST_UNKNOWN: Short\n   val LENGTHADJUST_SPACING: Short\n   val LENGTHADJUST_SPACINGANDGLYPHS: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGImageElement](https://developer.mozilla.org/en/docs/Web/API/SVGImageElement) to Kotlin\n */\npublic external abstract class SVGImageElement : SVGGraphicsElement, SVGURIReference, HTMLOrSVGImageElement {\n   open val x: SVGAnimatedLength\n   open val y: SVGAnimatedLength\n   open val width: SVGAnimatedLength\n   open val height: SVGAnimatedLength\n   open val preserveAspectRatio: SVGAnimatedPreserveAspectRatio\n   open var crossOrigin: String?\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGForeignObjectElement](https://developer.mozilla.org/en/docs/Web/API/SVGForeignObjectElement) to Kotlin\n */\npublic external abstract class SVGForeignObjectElement : SVGGraphicsElement {\n   open val x:

SVGAnimatedLength\n   open val y: SVGAnimatedLength\n   open val width: SVGAnimatedLength\n   open val height: SVGAnimatedLength\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\npublic external abstract class SVGMarkerElement : SVGElement, SVGFitToViewBox {\n   open val refX: SVGAnimatedLength\n   open val refY: SVGAnimatedLength\n   open val markerUnits: SVGAnimatedEnumeration\n   open val markerWidth: SVGAnimatedLength\n   open val markerHeight: SVGAnimatedLength\n   open val orientType: SVGAnimatedEnumeration\n   open val orientAngle: SVGAnimatedAngle\n   open var orient: String\n   fun setOrientToAuto()\n   fun setOrientToAngle(angle: SVGAngle)\n\n   companion object {\n   val SVG_MARKERUNITS_UNKNOWN: Short\n   val SVG_MARKERUNITS_USERSPACEONUSE: Short\n   val SVG_MARKERUNITS_STROKEWIDTH: Short\n   val SVG_MARKER_ORIENT_UNKNOWN: Short\n   val SVG_MARKER_ORIENT_AUTO: Short\n   val SVG_MARKER_ORIENT_ANGLE: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGSolidcolorElement](https://developer.mozilla.org/en/docs/Web/API/SVGSolidcolorElement) to Kotlin\n */\npublic external abstract class SVGSolidcolorElement : SVGElement {\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGGradientElement) to Kotlin\n */\npublic external abstract class SVGGradientElement : SVGElement, SVGURIReference, SVGUnitTypes {\n   open val gradientUnits: SVGAnimatedEnumeration\n   open val gradientTransform: SVGAnimatedTransformList\n   open val spreadMethod: SVGAnimatedEnumeration\n\n   companion object {\n   val SVG_SPREADMETHOD_UNKNOWN: Short\n   val SVG_SPREADMETHOD_PAD: Short\n   val SVG_SPREADMETHOD_REFLECT: Short\n   val SVG_SPREADMETHOD_REPEAT: Short\n   val SVG_UNIT_TYPE_UNKNOWN: Short\n   val

SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGLinearGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGLinearGradientElement) to Kotlin\n */\npublic external abstract class SVGLinearGradientElement : SVGGradientElement {\n open val x1: SVGAnimatedLength\n open val y1: SVGAnimatedLength\n open val x2: SVGAnimatedLength\n open val y2: SVGAnimatedLength\n\n companion object {\n val SVG_SPREADMETHOD_UNKNOWN: Short\n val SVG_SPREADMETHOD_PAD: Short\n val SVG_SPREADMETHOD_REFLECT: Short\n val SVG_SPREADMETHOD_REPEAT: Short\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGRadialGradientElement](https://developer.mozilla.org/en/docs/Web/API/SVGRadialGradientElement) to Kotlin\n */\npublic external abstract class SVGRadialGradientElement : SVGGradientElement {\n open val cx: SVGAnimatedLength\n open val cy: SVGAnimatedLength\n open val r: SVGAnimatedLength\n open val fx: SVGAnimatedLength\n open val fy: SVGAnimatedLength\n open val fr: SVGAnimatedLength\n\n companion object {\n val SVG_SPREADMETHOD_UNKNOWN: Short\n val SVG_SPREADMETHOD_PAD: Short\n val SVG_SPREADMETHOD_REFLECT: Short\n val SVG_SPREADMETHOD_REPEAT: Short\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class SVGMeshGradientElement : SVGGradientElement {\n companion object {\n val SVG_SPREADMETHOD_UNKNOWN: Short\n val SVG_SPREADMETHOD_PAD: Short\n val SVG_SPREADMETHOD_REFLECT: Short\n val SVG_SPREADMETHOD_REPEAT: Short\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val

SVG_UNIT_TYPE_OBJECTBOUNDINGBOX: Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class SVGMeshrowElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class SVGMeshpatchElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGStopElement](https://developer.mozilla.org/en/docs/Web/API/SVGStopElement) to Kotlin\n */\npublic external abstract class SVGStopElement : SVGElement {\n open val offset: SVGAnimatedNumber\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGPatternElement](https://developer.mozilla.org/en/docs/Web/API/SVGPatternElement) to Kotlin\n */\npublic external abstract class SVGPatternElement : SVGElement, SVGFitToViewBox, SVGURIReference, SVGUnitTypes {\n open val patternUnits: SVGAnimatedEnumeration\n open val patternContentUnits: SVGAnimatedEnumeration\n open val patternTransform: SVGAnimatedTransformList\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n open val width: SVGAnimatedLength\n open val height: SVGAnimatedLength\n\n companion object {\n val SVG_UNIT_TYPE_UNKNOWN: Short\n val SVG_UNIT_TYPE_USERSPACEONUSE: Short\n val SVG_UNIT_TYPE_OBJECTBOUNDINGBOX:

Short\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class SVGHatchElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\npublic external abstract class SVGHatchpathElement : SVGElement {\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGCursorElement](https://developer.mozilla.org/en/docs/Web/API/SVGCursorElement) to Kotlin\n */\npublic external abstract class SVGCursorElement : SVGElement, SVGURIReference {\n open val x: SVGAnimatedLength\n open val y: SVGAnimatedLength\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE: Short\n val DOCUMENT_NODE: Short\n val DOCUMENT_TYPE_NODE: Short\n val DOCUMENT_FRAGMENT_NODE: Short\n val NOTATION_NODE: Short\n val DOCUMENT_POSITION_DISCONNECTED: Short\n val DOCUMENT_POSITION_PRECEDING: Short\n val DOCUMENT_POSITION_FOLLOWING: Short\n val DOCUMENT_POSITION_CONTAINS: Short\n val DOCUMENT_POSITION_CONTAINED_BY: Short\n val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n }\n}\n\n/**\n * Exposes the JavaScript [SVGScriptElement](https://developer.mozilla.org/en/docs/Web/API/SVGScriptElement) to Kotlin\n */\npublic external abstract class SVGScriptElement : SVGElement, SVGURIReference, HTMLOrSVGScriptElement {\n open var type: String\n open var crossOrigin: String?\n\n companion object {\n val ELEMENT_NODE: Short\n val ATTRIBUTE_NODE: Short\n val TEXT_NODE: Short\n val CDATA_SECTION_NODE: Short\n val ENTITY_REFERENCE_NODE: Short\n val ENTITY_NODE: Short\n val PROCESSING_INSTRUCTION_NODE: Short\n val COMMENT_NODE:

Short\n
    val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGAElement](https://developer.mozilla.org/en/docs/Web/API/SVGAElement) to Kotlin\n */\npublic external abstract class SVGAElement : SVGGraphicsElement, SVGURIReference {\n   open val target: SVGAnimatedString\n   open val download: SVGAnimatedString\n   open val rel: SVGAnimatedString\n   open val relList: SVGAnimatedString\n   open val hreflang: SVGAnimatedString\n   open val type: SVGAnimatedString\n\n   companion object {\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}\n\n/**\n * Exposes the JavaScript [SVGViewElement](https://developer.mozilla.org/en/docs/Web/API/SVGViewElement) to Kotlin\n */\npublic external abstract class SVGViewElement : SVGElement, SVGFitToViewBox, SVGZoomAndPan {\n   companion object {\n   val SVG_ZOOMANDPAN_UNKNOWN: Short\n   val SVG_ZOOMANDPAN_DISABLE: Short\n   val SVG_ZOOMANDPAN_MAGNIFY: Short\n   val ELEMENT_NODE: Short\n   val ATTRIBUTE_NODE: Short\n   val TEXT_NODE: Short\n   val CDATA_SECTION_NODE: Short\n   val ENTITY_REFERENCE_NODE: Short\n   val ENTITY_NODE: Short\n   val PROCESSING_INSTRUCTION_NODE: Short\n   val COMMENT_NODE: Short\n   val DOCUMENT_NODE: Short\n   val DOCUMENT_TYPE_NODE: Short\n   val DOCUMENT_FRAGMENT_NODE: Short\n   val NOTATION_NODE: Short\n   val DOCUMENT_POSITION_DISCONNECTED: Short\n   val DOCUMENT_POSITION_PRECEDING: Short\n   val DOCUMENT_POSITION_FOLLOWING: Short\n   val DOCUMENT_POSITION_CONTAINS: Short\n   val DOCUMENT_POSITION_CONTAINED_BY: Short\n   val DOCUMENT_POSITION_IMPLEMENTATION_SPECIFIC: Short\n   }\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found
 in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.files\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript [Blob](https://developer.mozilla.org/en/docs/Web/API/Blob) to Kotlin\n */\npublic external open class Blob(blobParts: Array<dynamic> = definedExternally, options: BlobPropertyBag = definedExternally) : ImageBitmapSource {\n   open val size: Number\n   open val type: String\n   open val isClosed: Boolean\n   fun slice(start:

Int = definedExternally, end: Int = definedExternally, contentType: String = definedExternally): Blob\n fun close()\n}\n\npublic external interface BlobPropertyBag {\n var type: String? /* = \"\" */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun BlobPropertyBag(type: String? = \"\"): BlobPropertyBag {\n val o = js(\"({})\")\n o[\"type\"] = type\n return o\n}\n\n/**\n * Exposes the JavaScript [File](https://developer.mozilla.org/en/docs/Web/API/File) to Kotlin\n */\npublic external open class File(fileBits: Array<dynamic>, fileName: String, options: FilePropertyBag = definedExternally) : Blob {\n open val name: String\n open val lastModified: Int\n}\n\npublic external interface FilePropertyBag : BlobPropertyBag {\n var lastModified: Int?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun FilePropertyBag(lastModified: Int? = undefined, type: String? = \"\"): FilePropertyBag {\n val o = js(\"({})\")\n o[\"lastModified\"] = lastModified\n o[\"type\"] = type\n return o\n}\n\n/**\n * Exposes the JavaScript [FileList](https://developer.mozilla.org/en/docs/Web/API/FileList) to Kotlin\n */\npublic external abstract class FileList : ItemArrayLike<File> {\n override fun item(index: Int): File?\n}\n\n@kotlin.internal.InlineOnly\npublic inline operator fun FileList.get(index: Int): File? = asDynamic()[index]\n\n/**\n * Exposes the JavaScript [FileReader](https://developer.mozilla.org/en/docs/Web/API/FileReader) to Kotlin\n */\npublic external open class FileReader : EventTarget {\n open val readyState: Short\n open val result: dynamic\n open val error: dynamic\n var onloadstart: ((ProgressEvent) -> dynamic)?\n var onprogress: ((ProgressEvent) -> dynamic)?\n var onload: ((Event) -> dynamic)?\n var onabort: ((Event) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n var onloadend: ((Event) -> dynamic)?\n fun readAsArrayBuffer(blob: Blob)\n fun readAsBinaryString(blob: Blob)\n fun readAsText(blob: Blob, label: String = definedExternally)\n fun readAsDataURL(blob: Blob)\n fun abort()\n\n companion object {\n val EMPTY: Short\n val LOADING: Short\n val DONE: Short\n }\n}\n\n/**\n * Exposes the JavaScript [FileReaderSync](https://developer.mozilla.org/en/docs/Web/API/FileReaderSync) to Kotlin\n */\npublic external open class FileReaderSync {\n fun readAsArrayBuffer(blob: Blob): ArrayBuffer\n fun readAsBinaryString(blob: Blob): String\n fun readAsText(blob: Blob, label: String = definedExternally): String\n fun readAsDataURL(blob: Blob): String\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED,
DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.notifications\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript [Notification](https://developer.mozilla.org/en/docs/Web/API/Notification) to Kotlin\n */\npublic external open class Notification(title: String, options: NotificationOptions = definedExternally) : EventTarget {\n var onclick: ((MouseEvent) -> dynamic)?\n var onerror: ((Event) -> dynamic)?\n open val title: String\n open val dir: NotificationDirection\n open val lang: String\n
open val body: String\n open val tag: String\n open val image: String\n open val icon: String\n open val badge: String\n open val sound: String\n open val vibrate: Array<out Int>\n open val timestamp: Number\n open val renotify: Boolean\n open val silent: Boolean\n open val noscreen: Boolean\n open val requireInteraction: Boolean\n open val sticky: Boolean\n open val data: Any?\n open val actions: Array<out NotificationAction>\n fun close()\n\n companion object {\n val permission: NotificationPermission\n val maxActions: Int\n fun requestPermission(deprecatedCallback: (NotificationPermission) -> Unit = definedExternally): Promise<NotificationPermission>\n }\n}\n\npublic external interface NotificationOptions {\n var dir: NotificationDirection? /* = NotificationDirection.AUTO */\n get() = definedExternally\n set(value) = definedExternally\n var lang: String? /* = \"\" */\n get() = definedExternally\n

set(value) = definedExternally\n   var body: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var tag: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n   var image: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var icon: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var badge: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var sound: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var vibrate: dynamic\n   get() = definedExternally\n   set(value) = definedExternally\n   var timestamp: Number?\n   get() = definedExternally\n   set(value) = definedExternally\n   var renotify: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var silent:
Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var noscreen: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var requireInteraction: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var sticky: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var data: Any? /* = null */\n   get() = definedExternally\n   set(value) = definedExternally\n   var actions: Array<NotificationAction>? /* = arrayOf() */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun NotificationOptions(dir: NotificationDirection? = NotificationDirection.AUTO, lang: String? = \"\", body: String? = \"\", tag: String? = \"\", image: String? = undefined, icon: String? = undefined, badge: String? = undefined, sound: String?
= undefined, vibrate: dynamic = undefined, timestamp: Number? = undefined, renotify: Boolean? = false, silent: Boolean? = false, noscreen: Boolean? = false, requireInteraction: Boolean? = false, sticky: Boolean? = false, data: Any? = null, actions: Array<NotificationAction>? = arrayOf()): NotificationOptions {\n   val o = js(\"({})\")\n   o[\"dir\"] = dir\n   o[\"lang\"] = lang\n   o[\"body\"] = body\n   o[\"tag\"] = tag\n   o[\"image\"] = image\n   o[\"icon\"] = icon\n   o[\"badge\"] = badge\n   o[\"sound\"] = sound\n   o[\"vibrate\"] = vibrate\n   o[\"timestamp\"] = timestamp\n   o[\"renotify\"] = renotify\n   o[\"silent\"] = silent\n   o[\"noscreen\"] = noscreen\n   o[\"requireInteraction\"] = requireInteraction\n   o[\"sticky\"] = sticky\n   o[\"data\"] = data\n   o[\"actions\"] = actions\n   return o\n}\n\npublic external interface NotificationAction {\n   var action: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var
title: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var icon: String?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun NotificationAction(action: String?, title: String?, icon: String? = undefined): NotificationAction {\n   val o = js(\"({})\")\n   o[\"action\"] = action\n   o[\"title\"] = title\n   o[\"icon\"] = icon\n   return o\n}\n\npublic external interface GetNotificationOptions {\n   var tag: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun GetNotificationOptions(tag: String? = \"\"): GetNotificationOptions {\n   val o = js(\"({})\")\n   o[\"tag\"] = tag\n   return o\n}\n\n/**\n * Exposes the JavaScript [NotificationEvent](https://developer.mozilla.org/en/docs/Web/API/NotificationEvent) to Kotlin\n */\npublic external open class NotificationEvent(type:
String, eventInitDict: NotificationEventInit) : ExtendableEvent {\n   open val notification: Notification\n   open val action: String\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface NotificationEventInit : ExtendableEventInit {\n   var notification: Notification?\n   get() = definedExternally\n   set(value) = definedExternally\n   var action: String? /* = \"\" */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun NotificationEventInit(notification: Notification?, action: String? = \"\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): NotificationEventInit {\n   val o = js(\"({})\")\n   o[\"notification\"] = notification\n   o[\"action\"] = action\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n
o[\"composed\"] = composed\n   return o\n}\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface NotificationPermission {\n   companion object\n}\n\npublic inline val

NotificationPermission.Companion.DEFAULT: NotificationPermission get() = \"default\".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val NotificationPermission.Companion.DENIED: NotificationPermission get() = \"denied\".asDynamic().unsafeCast<NotificationPermission>()\n\npublic inline val NotificationPermission.Companion.GRANTED: NotificationPermission get() = \"granted\".asDynamic().unsafeCast<NotificationPermission>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface NotificationDirection {\n   companion object\n}\n\npublic inline val NotificationDirection.Companion.AUTO: NotificationDirection get() = \"auto\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val NotificationDirection.Companion.LTR: NotificationDirection get() = \"ltr\".asDynamic().unsafeCast<NotificationDirection>()\n\npublic inline val NotificationDirection.Companion.RTL: NotificationDirection get() = \"rtl\".asDynamic().unsafeCast<NotificationDirection>()","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.workers\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.xhr.*\n\n/**\n * Exposes the JavaScript [ServiceWorker](https://developer.mozilla.org/en/docs/Web/API/ServiceWorker) to Kotlin\n */\npublic external abstract class ServiceWorker : EventTarget, AbstractWorker, UnionMessagePortOrServiceWorker, UnionClientOrMessagePortOrServiceWorker {\n   open val scriptURL: String\n   open val state: ServiceWorkerState\n   open var onstatechange: ((Event) -> dynamic)?\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [ServiceWorkerRegistration](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerRegistration) to Kotlin\n */\npublic external abstract class ServiceWorkerRegistration : EventTarget {\n   open val installing: ServiceWorker?\n   open val waiting: ServiceWorker?\n   open val active: ServiceWorker?\n   open val scope: String\n   open var onupdatefound: ((Event) -> dynamic)?\n   open val APISpace: dynamic\n   fun update(): Promise<Unit>\n   fun unregister(): Promise<Boolean>\n   fun showNotification(title: String, options: NotificationOptions = definedExternally): Promise<Unit>\n   fun getNotifications(filter: GetNotificationOptions = definedExternally): Promise<Array<Notification>>\n   fun methodName(): Promise<dynamic>\n}\n\n/**\n * Exposes the JavaScript [ServiceWorkerContainer](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerContainer) to Kotlin\n */\npublic external abstract class ServiceWorkerContainer : EventTarget {\n   open val controller: ServiceWorker?\n   open val ready: Promise<ServiceWorkerRegistration>\n   open var oncontrollerchange: ((Event) -> dynamic)?\n   open var onmessage: ((MessageEvent) -> dynamic)?\n   fun register(scriptURL: String, options: RegistrationOptions = definedExternally): Promise<ServiceWorkerRegistration>\n   fun getRegistration(clientURL: String = definedExternally): Promise<Any?>\n   fun getRegistrations(): Promise<Array<ServiceWorkerRegistration>>\n   fun startMessages()\n}\n\npublic external interface RegistrationOptions {\n   var scope: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var type: WorkerType? /* = WorkerType.CLASSIC */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun RegistrationOptions(scope: String? = undefined, type: WorkerType? = WorkerType.CLASSIC): RegistrationOptions {\n   val o = js(\"({})\")\n   o[\"scope\"] = scope\n   o[\"type\"] = type\n   return o\n}\n\n/**\n * Exposes the JavaScript [ServiceWorkerMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerMessageEvent) to Kotlin\n */\npublic external open class ServiceWorkerMessageEvent(type: String, eventInitDict:

ServiceWorkerMessageEventInit = definedExternally) : Event {\n   open val data: Any?\n   open val origin: String\n   open val lastEventId: String\n   open val source: UnionMessagePortOrServiceWorker?\n   open val ports: Array<out MessagePort>?\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface ServiceWorkerMessageEventInit : EventInit {\n   var data: Any?\n   get() = definedExternally\n   set(value) = definedExternally\n   var origin: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var lastEventId: String?\n   get() = definedExternally\n   set(value) = definedExternally\n   var source: UnionMessagePortOrServiceWorker?\n   get() = definedExternally\n   set(value) = definedExternally\n   var ports: Array<MessagePort>?\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ServiceWorkerMessageEventInit(data: Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source: UnionMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ServiceWorkerMessageEventInit {\n   val o = js(\"({})\")\n   o[\"data\"] = data\n   o[\"origin\"] = origin\n   o[\"lastEventId\"] = lastEventId\n   o[\"source\"] = source\n   o[\"ports\"] = ports\n   o[\"bubbles\"] = bubbles\n   o[\"cancelable\"] = cancelable\n   o[\"composed\"] = composed\n   return o\n}\n\n/**\n * Exposes the JavaScript [ServiceWorkerGlobalScope](https://developer.mozilla.org/en/docs/Web/API/ServiceWorkerGlobalScope) to Kotlin\n */\npublic external abstract class ServiceWorkerGlobalScope : WorkerGlobalScope {\n   open val clients: Clients\n   open val registration: ServiceWorkerRegistration\n   open var oninstall: ((Event) -> dynamic)?\n   open var onactivate: ((Event) -> dynamic)?\n   open var onfetch: ((FetchEvent) -> dynamic)?\n   open var onforeignfetch: ((Event) -> dynamic)?\n   open var onmessage: ((MessageEvent) -> dynamic)?\n   open var onnotificationclick: ((NotificationEvent) -> dynamic)?\n   open var onnotificationclose: ((NotificationEvent) -> dynamic)?\n   open var onfunctionalevent: ((Event) -> dynamic)?\n   fun skipWaiting(): Promise<Unit>\n}\n\n/**\n * Exposes the JavaScript [Client](https://developer.mozilla.org/en/docs/Web/API/Client) to Kotlin\n */\npublic external abstract class Client : UnionClientOrMessagePortOrServiceWorker {\n   open val url: String\n   open val frameType: FrameType\n   open val id: String\n   fun postMessage(message: Any?, transfer: Array<dynamic> = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [WindowClient](https://developer.mozilla.org/en/docs/Web/API/WindowClient) to Kotlin\n */\npublic external abstract class WindowClient : Client {\n   open val visibilityState: dynamic\n   open val focused: Boolean\n   fun focus(): Promise<WindowClient>\n   fun navigate(url: String): Promise<WindowClient>\n}\n\n/**\n * Exposes the JavaScript [Clients](https://developer.mozilla.org/en/docs/Web/API/Clients) to Kotlin\n */\npublic external abstract class Clients {\n   fun get(id: String): Promise<Any?>\n   fun matchAll(options: ClientQueryOptions = definedExternally): Promise<Array<Client>>\n   fun openWindow(url: String): Promise<WindowClient?>\n   fun claim(): Promise<Unit>\n}\n\npublic external interface ClientQueryOptions {\n   var includeUncontrolled: Boolean? /* = false */\n   get() = definedExternally\n   set(value) = definedExternally\n   var type: ClientType? /* = ClientType.WINDOW */\n   get() = definedExternally\n   set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ClientQueryOptions(includeUncontrolled: Boolean? = false, type: ClientType? = ClientType.WINDOW): ClientQueryOptions {\n   val o = js(\"({})\")\n   o[\"includeUncontrolled\"] = includeUncontrolled\n   o[\"type\"] = type\n   return o\n}\n\n/**\n * Exposes the JavaScript [ExtendableEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableEvent) to Kotlin\n */\npublic external open class ExtendableEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : Event {\n   fun waitUntil(f: Promise<Any?>)\n\n   companion object {\n   val NONE: Short\n   val CAPTURING_PHASE: Short\n   val AT_TARGET: Short\n   val BUBBLING_PHASE: Short\n   }\n}\n\npublic external interface ExtendableEventInit : EventInit\n\n@kotlin.internal.InlineOnly\npublic inline fun ExtendableEventInit(bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableEventInit {\n   val o =

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js(\"({})\")\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\n/**\n * Exposes the JavaScript [InstallEvent](https://developer.mozilla.org/en/docs/Web/API/InstallEvent) to Kotlin\n */\npublic external open class InstallEvent(type: String, eventInitDict: ExtendableEventInit = definedExternally) : ExtendableEvent {\n    fun registerForeignFetch(options: ForeignFetchOptions)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ForeignFetchOptions {\n    var scopes: Array<String>?\n        get() = definedExternally\n        set(value) = definedExternally\n    var origins: Array<String>?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchOptions(scopes: Array<String>?, origins: Array<String>?): ForeignFetchOptions {\n    val o = js(\"({})\")\n    o[\"scopes\"] = scopes\n    o[\"origins\"] = origins\n    return o\n}\n\n/**\n * Exposes the JavaScript [FetchEvent](https://developer.mozilla.org/en/docs/Web/API/FetchEvent) to Kotlin\n */\npublic external open class FetchEvent(type: String, eventInitDict: FetchEventInit) : ExtendableEvent {\n    open val request: Request\n    open val clientId: String?\n    open val isReload: Boolean\n    fun respondWith(r: Promise<Response>)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface FetchEventInit : ExtendableEventInit {\n    var request: Request?\n        get() = definedExternally\n        set(value) = definedExternally\n    var clientId: String? /* = null */\n        get() = definedExternally\n        set(value) = definedExternally\n    var isReload: Boolean? /* = false */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun FetchEventInit(request: Request?, clientId: String? = null, isReload: Boolean? = false, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean?
 = false): FetchEventInit {\n    val o = js(\"({})\")\n    o[\"request\"] = request\n    o[\"clientId\"] = clientId\n    o[\"isReload\"] = isReload\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\npublic external open class ForeignFetchEvent(type: String, eventInitDict: ForeignFetchEventInit) : ExtendableEvent {\n    open val request: Request\n    open val origin: String\n    fun respondWith(r: Promise<ForeignFetchResponse>)\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface ForeignFetchEventInit : ExtendableEventInit {\n    var request: Request?\n        get() = definedExternally\n        set(value) = definedExternally\n    var origin: String? /* = \"null\" */\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchEventInit(request: Request?, origin: String? = \"null\", bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ForeignFetchEventInit {\n    val o = js(\"({})\")\n    o[\"request\"] = request\n    o[\"origin\"] = origin\n    o[\"bubbles\"] = bubbles\n    o[\"cancelable\"] = cancelable\n    o[\"composed\"] = composed\n    return o\n}\n\npublic external interface ForeignFetchResponse {\n    var response: Response?\n        get() = definedExternally\n        set(value) = definedExternally\n    var origin: String?\n        get() = definedExternally\n        set(value) = definedExternally\n    var headers: Array<String>?\n        get() = definedExternally\n        set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ForeignFetchResponse(response: Response?, origin: String? = undefined, headers: Array<String>? = undefined): ForeignFetchResponse {\n    val o = js(\"({})\")\n    o[\"response\"] = response\n
    o[\"origin\"] = origin\n    o[\"headers\"] = headers\n    return o\n}\n\n/**\n * Exposes the JavaScript [ExtendableMessageEvent](https://developer.mozilla.org/en/docs/Web/API/ExtendableMessageEvent) to Kotlin\n */\npublic external open class ExtendableMessageEvent(type: String, eventInitDict: ExtendableMessageEventInit = definedExternally) : ExtendableEvent {\n    open val data: Any?\n    open val origin: String\n    open val lastEventId: String\n    open val source: UnionClientOrMessagePortOrServiceWorker?\n    open val ports: Array<out MessagePort>?\n\n    companion object {\n        val NONE: Short\n        val CAPTURING_PHASE: Short\n        val AT_TARGET: Short\n        val BUBBLING_PHASE: Short\n    }\n}\n\npublic external interface
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ExtendableMessageEventInit : ExtendableEventInit {\n var data: Any?\n get() = definedExternally\n set(value) = definedExternally\n var origin: String?\n get() = definedExternally\n set(value) = definedExternally\n

var lastEventId: String?\n get() = definedExternally\n set(value) = definedExternally\n var source: UnionClientOrMessagePortOrServiceWorker?\n get() = definedExternally\n set(value) = definedExternally\n var ports: Array<MessagePort>?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ExtendableMessageEventInit(data: Any? = undefined, origin: String? = undefined, lastEventId: String? = undefined, source: UnionClientOrMessagePortOrServiceWorker? = undefined, ports: Array<MessagePort>? = undefined, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ExtendableMessageEventInit {\n val o = js(\"({})\")\n o[\"data\"] = data\n o[\"origin\"] = origin\n o[\"lastEventId\"] = lastEventId\n o[\"source\"] = source\n o[\"ports\"] = ports\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n

return o\n}\n\n/**\n * Exposes the JavaScript [Cache](https://developer.mozilla.org/en/docs/Web/API/Cache) to Kotlin\n */\npublic external abstract class Cache {\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\n fun matchAll(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Response>>\n fun add(request: dynamic): Promise<Unit>\n fun addAll(requests: Array<dynamic>): Promise<Unit>\n fun put(request: dynamic, response: Response): Promise<Unit>\n fun delete(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Boolean>\n fun keys(request: dynamic = definedExternally, options: CacheQueryOptions = definedExternally): Promise<Array<Request>>\n}\n\npublic external interface CacheQueryOptions {\n var ignoreSearch: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var ignoreMethod: Boolean? /* = false

/\n get() = definedExternally\n set(value) = definedExternally\n var ignoreVary: Boolean? / = false */\n get() = definedExternally\n set(value) = definedExternally\n var cacheName: String?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun CacheQueryOptions(ignoreSearch: Boolean? = false, ignoreMethod: Boolean? = false, ignoreVary: Boolean? = false, cacheName: String? = undefined): CacheQueryOptions {\n val o = js(\"({})\")\n o[\"ignoreSearch\"] = ignoreSearch\n o[\"ignoreMethod\"] = ignoreMethod\n o[\"ignoreVary\"] = ignoreVary\n o[\"cacheName\"] = cacheName\n return o\n}\n\npublic external interface CacheBatchOperation {\n var type: String?\n get() = definedExternally\n set(value) = definedExternally\n var request: Request?\n get() = definedExternally\n set(value) = definedExternally\n var response: Response?\n

get() = definedExternally\n set(value) = definedExternally\n var options: CacheQueryOptions?\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun CacheBatchOperation(type: String? = undefined, request: Request? = undefined, response: Response? = undefined, options: CacheQueryOptions? = undefined): CacheBatchOperation {\n val o = js(\"({})\")\n o[\"type\"] = type\n o[\"request\"] = request\n o[\"response\"] = response\n o[\"options\"] = options\n return o\n}\n\n/**\n * Exposes the JavaScript [CacheStorage](https://developer.mozilla.org/en/docs/Web/API/CacheStorage) to Kotlin\n */\npublic external abstract class CacheStorage {\n fun match(request: dynamic, options: CacheQueryOptions = definedExternally): Promise<Any?>\n fun has(cacheName: String): Promise<Boolean>\n fun open(cacheName: String): Promise<Cache>\n fun delete(cacheName: String): Promise<Boolean>\n fun keys(): Promise<Array<String>>\n}\n\npublic external open class FunctionalEvent : ExtendableEvent {\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface UnionMessagePortOrServiceWorker\n\npublic external interface UnionClientOrMessagePortOrServiceWorker\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ServiceWorkerState {\n companion object\n}\n\npublic inline val ServiceWorkerState.Companion.INSTALLING: ServiceWorkerState get() = \"installing\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val

ServiceWorkerState.Companion.INSTALLED: ServiceWorkerState get() = \"installed\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val ServiceWorkerState.Companion.ACTIVATING: ServiceWorkerState get() = \"activating\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val ServiceWorkerState.Companion.ACTIVATED: ServiceWorkerState get() = \"activated\".asDynamic().unsafeCast<ServiceWorkerState>()\n\npublic inline val ServiceWorkerState.Companion.REDUNDANT: ServiceWorkerState get() = \"redundant\".asDynamic().unsafeCast<ServiceWorkerState>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface FrameType {\n companion object\n}\n\npublic inline val FrameType.Companion.AUXILIARY: FrameType get() = \"auxiliary\".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.TOP_LEVEL: FrameType get() = \"top-level\".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NESTED: FrameType get() = \"nested\".asDynamic().unsafeCast<FrameType>()\n\npublic inline val FrameType.Companion.NONE: FrameType get() = \"none\".asDynamic().unsafeCast<FrameType>()\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface ClientType {\n companion object\n}\n\npublic inline val ClientType.Companion.WINDOW: ClientType get() = \"window\".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.WORKER: ClientType get() = \"worker\".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.SHAREDWORKER: ClientType get() = \"sharedworker\".asDynamic().unsafeCast<ClientType>()\n\npublic inline val ClientType.Companion.ALL: ClientType get() = \"all\".asDynamic().unsafeCast<ClientType>()","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// NOTE: THIS FILE IS AUTO-GENERATED, DO NOT EDIT!\n// See github.com/kotlin/dukat for details\n\npackage org.w3c.xhr\n\nimport kotlin.js.*\nimport org.khronos.webgl.*\nimport org.w3c.css.masking.*\nimport org.w3c.dom.*\nimport org.w3c.dom.clipboard.*\nimport org.w3c.dom.css.*\nimport org.w3c.dom.events.*\nimport org.w3c.dom.mediacapture.*\nimport org.w3c.dom.parsing.*\nimport org.w3c.dom.pointerevents.*\nimport org.w3c.dom.svg.*\nimport org.w3c.dom.url.*\nimport org.w3c.fetch.*\nimport org.w3c.files.*\nimport org.w3c.notifications.*\nimport org.w3c.performance.*\nimport org.w3c.workers.*\n\n/**\n * Exposes the JavaScript [XMLHttpRequestEventTarget](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequestEventTarget) to Kotlin\n */\npublic external abstract class XMLHttpRequestEventTarget : EventTarget {\n open var onloadstart: ((ProgressEvent) -> dynamic)?\n open var onprogress: ((ProgressEvent) -> dynamic)?\n open var onabort: ((Event) -> dynamic)?\n open var onerror: ((Event) -> dynamic)?\n open var onload: ((Event) -> dynamic)?\n open var ontimeout: ((Event) -> dynamic)?\n open var onloadend: ((Event) -> dynamic)?\n}\n\npublic external abstract class XMLHttpRequestUpload : XMLHttpRequestEventTarget\n\n/**\n * Exposes the JavaScript [XMLHttpRequest](https://developer.mozilla.org/en/docs/Web/API/XMLHttpRequest) to Kotlin\n */\npublic external open class XMLHttpRequest : XMLHttpRequestEventTarget {\n var onreadystatechange: ((Event) -> dynamic)?\n open val readyState: Short\n var timeout: Int\n var withCredentials: Boolean\n open val upload: XMLHttpRequestUpload\n open val responseURL: String\n open val status: Short\n open val statusText: String\n var responseType: XMLHttpRequestResponseType\n open val response: Any?\n open val responseText: String\n open val responseXML: Document?\n fun open(method: String, url: String)\n fun open(method: String, url: String, async: Boolean, username: String? = definedExternally, password: String? = definedExternally)\n fun setRequestHeader(name: String, value: String)\n fun send(body: dynamic = definedExternally)\n fun abort()\n fun getResponseHeader(name: String):

String?\n fun getAllResponseHeaders(): String\n fun overrideMimeType(mime: String)\n\n companion object {\n val UNSENT: Short\n val OPENED: Short\n val HEADERS_RECEIVED: Short\n val LOADING: Short\n val DONE: Short\n }\n}\n\n/**\n * Exposes the JavaScript [FormData](https://developer.mozilla.org/en/docs/Web/API/FormData) to Kotlin\n */\npublic external open class FormData(form: HTMLFormElement = definedExternally) {\n fun append(name: String, value: String)\n fun append(name: String, value: Blob, filename: String = definedExternally)\n fun delete(name: String)\n fun get(name: String): dynamic\n fun getAll(name: String): Array<dynamic>\n fun has(name: String): Boolean\n fun set(name: String, value: String)\n fun set(name: String, value: Blob, filename: String = definedExternally)\n}\n\n/**\n * Exposes the JavaScript [ProgressEvent](https://developer.mozilla.org/en/docs/Web/API/ProgressEvent) to Kotlin\n */\npublic external open class ProgressEvent(type: String, eventInitDict: ProgressEventInit = definedExternally) : Event {\n open val lengthComputable: Boolean\n open val loaded: Number\n open val total: Number\n\n companion object {\n val NONE: Short\n val CAPTURING_PHASE: Short\n val AT_TARGET: Short\n val BUBBLING_PHASE: Short\n }\n}\n\npublic external interface ProgressEventInit : EventInit {\n var lengthComputable: Boolean? /* = false */\n get() = definedExternally\n set(value) = definedExternally\n var loaded: Number? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n var total: Number? /* = 0 */\n get() = definedExternally\n set(value) = definedExternally\n}\n\n@kotlin.internal.InlineOnly\npublic inline fun ProgressEventInit(lengthComputable: Boolean? = false, loaded: Number? = 0, total: Number? = 0, bubbles: Boolean? = false, cancelable: Boolean? = false, composed: Boolean? = false): ProgressEventInit {\n val o = js(\"({})\")\n o[\"lengthComputable\"] = lengthComputable\n o[\"loaded\"] = loaded\n o[\"total\"] = total\n o[\"bubbles\"] = bubbles\n o[\"cancelable\"] = cancelable\n o[\"composed\"] = composed\n return o\n}\n\n/* please, don't implement this interface! */\n@Suppress(\"NESTED_CLASS_IN_EXTERNAL_INTERFACE\")\npublic external interface XMLHttpRequestResponseType {\n companion object\n}\n\npublic inline val XMLHttpRequestResponseType.Companion.EMPTY: XMLHttpRequestResponseType get() = \"\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val XMLHttpRequestResponseType.Companion.ARRAYBUFFER: XMLHttpRequestResponseType get() = \"arraybuffer\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val XMLHttpRequestResponseType.Companion.BLOB: XMLHttpRequestResponseType get() = \"blob\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val XMLHttpRequestResponseType.Companion.DOCUMENT: XMLHttpRequestResponseType get() = \"document\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val XMLHttpRequestResponseType.Companion.JSON: XMLHttpRequestResponseType get() = \"json\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()\n\npublic inline val XMLHttpRequestResponseType.Companion.TEXT: XMLHttpRequestResponseType get() = \"text\".asDynamic().unsafeCast<XMLHttpRequestResponseType>()","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.annotation.AnnotationRetention.BINARY\nimport kotlin.annotation.AnnotationRetention.SOURCE\nimport kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\nimport kotlin.reflect.KClass\n\n/**\n * Signals that the annotated annotation class is a marker of an experimental API.\n *\n * Any declaration annotated with that marker is considered an experimental declaration\n * and its call sites should accept the experimental aspect of it either by using [UseExperimental],\n * or by being annotated with that marker themselves, effectively causing further propagation of that experimental aspect.\n *\n * This class is experimental itself and can only be used with the compiler argument `-Xuse-

experimental=kotlin.Experimental`.\n
*/\n@Target(ANNOTATION_CLASS)\n@Retention(BINARY)\n@SinceKotlin(\"1.2\")\n@RequireKotlin(\"1.2.50\", versionKind =
RequireKotlinVersionKind.COMPILER_VERSION)\n@Suppress(\"ANNOTATION_CLASS_MEMBER\")\npublic annotation class Experimental(val level: Level = Level.ERROR) {\n /**\n * Severity of the diagnostic that should be reported on usages of experimental API which did not explicitly accept the experimental aspect\n * of that API either by using [UseExperimental] or by being annotated with the corresponding
marker annotation.\n */\n public enum class Level {\n /** Specifies that a warning should be reported on incorrect usages of this experimental API. */\n WARNING,\n /** Specifies that an error should be reported on incorrect usages of this experimental API. */\n ERROR,\n }\n}\n\n/**\n * Allows to use experimental API denoted by the given markers in the annotated file, declaration, or expression.\n * If a declaration is annotated with [UseExperimental], its usages are **not** required to opt-in to that experimental API.\n *\n * This class is experimental itself and can only be used with the compiler argument `-Xuse-experimental=kotlin.Experimental`.\n */\n@Target(\n CLASS, PROPERTY, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR, FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, EXPRESSION, FILE, TYPEALIAS\n)\n@Retention(SOURCE)\n@SinceKotlin(\"1.2\")\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation
class UseExperimental(\n vararg val markerClass: KClass<out Annotation>\n)\n\n\n@Target(CLASS, PROPERTY, CONSTRUCTOR, FUNCTION, TYPEALIAS)\n@Retention(BINARY)\ninternal annotation class WasExperimental(\n vararg val markerClass: KClass<out Annotation>\n)\n","package kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * This annotation marks the standard library API that is considered experimental and is not subject to the\n * [general compatibility guarantees](https://kotlinlang.org/docs/reference/evolution/components-stability.html) given for the standard library:\n * the behavior of such API may be changed or the API may be removed completely in any further release.\n *\n * > Beware using the annotated API especially if you're developing a library, since your library might become binary incompatible\n * with the future versions of the standard library.\n *\n * Any usage of a declaration annotated with `@ExperimentalStdlibApi` must be accepted either by\n * annotating
that usage with the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalStdlibApi::class)`,\n * or by using the compiler argument `-Xuse-experimental=kotlin.ExperimentalStdlibApi`.\n */\n@Experimental(level = Experimental.Level.ERROR)\n@Retention(AnnotationRetention.BINARY)\n@Target(\n CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n PROPERTY_SETTER,\n TYPEALIAS\n)\n@MustBeDocumented\n@ExperimentalStdlibApi\n@SinceKotlin(\"1.3\") // TODO: Remove experimental status from itself and advance SinceKotlin to 1.4\npublic annotation class ExperimentalStdlibApi\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n/**\n
* Allows to infer generic type arguments of a function from the calls in the annotated function parameter of that function.\n *\n * When this annotation is placed on a generic function parameter of a function,\n * it enables to infer the type arguments of that generic function from the lambda body passed to that parameter.\n *\n * The calls that affect inference are either members of the receiver type of an annotated function parameter or\n * extensions for that type. The extensions must be themselves annotated with `@BuilderInference`.\n *\n * Example: we declare\n * ```\n * fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Sequence<T>\n * ```\n * and use it like\n * ```\n * val result = sequence { yield(\"result\") }\n * ```\n * Here the type argument of the resulting sequence is inferred to `String` from\n * the argument of the [SequenceScope.yield] function, that is called inside the lambda passed to [sequence].\n

*\n * Note: this annotation is experimental, see [ExperimentalTypeInference] on how to opt-in for it.\n */\n@Target(VALUE_PARAMETER, FUNCTION, PROPERTY)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.3\")\n@ExperimentalTypeInference\npublic annotation class BuilderInference\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\n\n/**\n * The experimental multiplatform support API marker.\n *\n * Any usage of a declaration annotated with `@ExperimentalMultiplatform` must be accepted either by\n * annotating that usage with the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalMultiplatform::class)`,\n * or by using the compiler argument `-Xuse-experimental=kotlin.ExperimentalMultiplatform`.\n */\n@Experimental\n@MustBeDocumented\n@Target(\n CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n PROPERTY_SETTER,\n TYPEALIAS\n)\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class ExperimentalMultiplatform\n\n/**\n * Marks an expected annotation class that it isn't required to have actual counterparts in all platforms.\n *\n * This annotation is only applicable to `expect` annotation classes in multi-platform projects and marks that class as \"optional\".\n * Optional expected class is allowed to have no corresponding actual class on the platform. Optional annotations can only be used\n * to annotate something, not as types in signatures. If an optional annotation has no corresponding actual class on a platform,\n * the annotation
entries where it's used are simply erased when compiling code on that platform.\n *\n * Note: this annotation is experimental, see [ExperimentalMultiplatform] on how to opt-in for it.\n */\n@Target(ANNOTATION_CLASS)\n@Retention(AnnotationRetention.BINARY)\n@ExperimentalMultiplatform\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class OptionalExpectation\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\nimport kotlin.js.JsName\n\n/**\n * Provides a skeletal implementation of the read-only [Collection] interface.\n *\n * @param E the type of elements contained in the collection. The collection is covariant on its element type.\n */\n@SinceKotlin(\"1.1\")\npublic abstract class AbstractCollection<out E> protected constructor() : Collection<E>
{\n abstract override val size: Int\n abstract override fun iterator(): Iterator<E>\n\n override fun contains(element: @UnsafeVariance E): Boolean = any { it == element }\n\n override fun containsAll(elements: Collection<@UnsafeVariance E>): Boolean =\n elements.all { contains(it) } // use when js will support bound refs: elements.all(this::contains)\n\n override fun isEmpty(): Boolean = size == 0\n\n override fun toString(): String = joinToString(\", \", \"[\", \"]\") {\n if (it === this) \"(this Collection)\" else it.toString()\n }\n\n /**\n * Returns new array of type `Array<Any?>` with the elements of this collection.\n */\n @JsName(\"toArray\")\n protected open fun toArray(): Array<Any?> = copyToArrayImpl(this)\n\n /**\n * Fills the provided [array] or creates new array of the same type\n * and fills it with the elements of this collection.\n */\n protected open fun <T> toArray(array: Array<T>): Array<T>
= copyToArrayImpl(this, array)\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n\nprivate enum class State {\n Ready,\n NotReady,\n Done,\n Failed\n}\n\n/**\n * A base class to simplify implementing iterators so that implementations only have to implement [computeNext]\n * to implement the iterator, calling [done] when the iteration is complete.\n */\npublic abstract class AbstractIterator<T> : Iterator<T> {\n private var state = State.NotReady\n private var nextValue: T? = null\n\n override fun hasNext(): Boolean {\n require(state != State.Failed)\n return when (state) {\n State.Done -> false\n State.Ready -> true\n else ->

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tryToComputeNext()\n        }\n    }\n\n    override fun next(): T {\n        if (!hasNext()) throw
 NoSuchElementException()\n        state = State.NotReady\n        @Suppress(\"UNCHECKED_CAST\")\n
return nextValue as T\n    }\n\n    private fun tryToComputeNext(): Boolean {\n        state = State.Failed\n
computeNext()\n        return state == State.Ready\n    }\n\n    /**\n     * Computes the next item in the iterator.\n
*\n     * This callback method should call one of these two methods:\n     *\n     * * [setNext] with the next value of
the iteration\n     * * [done] to indicate there are no more elements\n     *\n     * Failure to call either method will
result in the iteration terminating with a failed state\n     */\n    abstract protected fun computeNext(): Unit\n\n
/**\n     * Sets the next value in the iteration, called from the [computeNext] function\n     */\n    protected fun
setNext(value: T): Unit {\n        nextValue = value\n        state = State.Ready\n    }\n\n    /**\n     * Sets the state to
done so that the iteration terminates.\n     */\n
    protected fun done() {\n        state = State.Done\n    }\n}\n\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and
Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT AbstractList\n * Copyright 2007 Google
Inc.\n*/\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [List]
interface.\n *\n * This class is intended to help implementing read-only lists so it doesn't support concurrent
modification tracking.\n *\n * @param E the type of elements contained in the list. The list is covariant on its
element type.\n */\n@SinceKotlin(\"1.1\")\npublic abstract class AbstractList<out E> protected constructor() :
AbstractCollection<E>(), List<E> {\n    abstract override val size: Int\n    abstract override fun get(index: Int): E\n\n
  override fun iterator(): Iterator<E> = IteratorImpl()\n\n    override fun indexOf(element:
 @UnsafeVariance E): Int = indexOfFirst { it == element }\n\n    override fun lastIndexOf(element:
@UnsafeVariance E): Int = indexOfLast { it == element }\n\n    override fun listIterator(): ListIterator<E> =
ListIteratorImpl(0)\n\n    override fun listIterator(index: Int): ListIterator<E> = ListIteratorImpl(index)\n\n
override fun subList(fromIndex: Int, toIndex: Int): List<E> = SubList(this, fromIndex, toIndex)\n\n    private class
SubList<out E>(private val list: AbstractList<E>, private val fromIndex: Int, toIndex: Int) : AbstractList<E>(),
RandomAccess {\n        private var _size: Int = 0\n\n        init {\n            checkRangeIndexes(fromIndex, toIndex,
list.size)\n            this._size = toIndex - fromIndex\n        }\n\n        override fun get(index: Int): E {\n
checkElementIndex(index, _size)\n\n            return list[fromIndex + index]\n        }\n\n        override val size: Int
get() = _size\n    }\n\n    /**\n     * Compares this list with other
 list instance with the ordered structural equality.\n     *\n     * @return true, if [other] instance is a [List] of the same
size, which contains the same elements in the same order.\n     */\n    override fun equals(other: Any?): Boolean {\n
    if (other === this) return true\n        if (other !is List<*>) return false\n\n        return orderedEquals(this, other)\n
}\n\n    /**\n     * Returns the hash code value for this list.\n     */\n    override fun hashCode(): Int =
orderedHashCode(this)\n\n    private open inner class IteratorImpl : Iterator<E> {\n        /** the index of the item
that will be returned on the next call to [next]`()` */\n        protected var index = 0\n\n        override fun hasNext():
Boolean = index < size\n\n        override fun next(): E {\n            if (!hasNext()) throw NoSuchElementException()\n
            return get(index++)\n        }\n    }\n\n    /**\n     * Implementation of [ListIterator] for abstract lists.\n     */\n
private open inner
 class ListIteratorImpl(index: Int) : IteratorImpl(), ListIterator<E> {\n\n        init {\n
checkPositionIndex(index, this@AbstractList.size)\n            this.index = index\n        }\n\n        override fun
hasPrevious(): Boolean = index > 0\n\n        override fun nextIndex(): Int = index\n\n        override fun previous(): E
{\n            if (!hasPrevious()) throw NoSuchElementException()\n            return get(--index)\n        }\n\n
override fun previousIndex(): Int = index - 1\n    }\n\n    internal companion object {\n        internal fun
checkElementIndex(index: Int, size: Int) {\n            if (index < 0 || index >= size) {\n                throw
IndexOutOfBoundsException(\"index: $index, size: $size\")\n            }\n        }\n\n        internal fun
checkPositionIndex(index: Int, size: Int) {\n            if (index < 0 || index > size) {\n                throw
IndexOutOfBoundsException(\"index: $index, size: $size\")\n            }\n        }\n\n
        internal fun checkRangeIndexes(fromIndex: Int, toIndex: Int, size: Int) {\n            if (fromIndex < 0 || toIndex >
size) {\n                throw IndexOutOfBoundsException(\"fromIndex: $fromIndex, toIndex: $toIndex, size: $size\")\n
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}\n        if (fromIndex > toIndex) {\n            throw IllegalArgumentException(\"fromIndex: $fromIndex > toIndex: $toIndex\")\n        }\n    }\n\n    internal fun checkBoundsIndexes(startIndex: Int, endIndex: Int, size: Int) {\n        if (startIndex < 0 || endIndex > size) {\n            throw IndexOutOfBoundsException(\"startIndex: $startIndex, endIndex: $endIndex, size: $size\")\n        }\n        if (startIndex > endIndex) {\n            throw IllegalArgumentException(\"startIndex: $startIndex > endIndex: $endIndex\")\n        }\n    }\n\n    internal fun orderedHashCode(c: Collection<*>): Int {\n        var hashCode = 1\n        for (e in c) {\n            hashCode
 = 31 * hashCode + (e?.hashCode() ?: 0)\n        }\n        return hashCode\n    }\n\n    internal fun orderedEquals(c: Collection<*>, other: Collection<*>): Boolean {\n        if (c.size != other.size) return false\n\n        val otherIterator = other.iterator()\n        for (elem in c) {\n            val elemOther = otherIterator.next()\n            if (elem != elemOther) {\n                return false\n            }\n        }\n        return true\n    }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n/*\n * Based on GWT AbstractMap\n * Copyright 2007 Google Inc.\n */\n\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [Map] interface.\n *\n * The implementor is required to implement [entries] property, which should
 return read-only set of map entries.\n *\n * @param K the type of map keys. The map is invariant on its key type.\n * @param V the type of map values. The map is covariant on its value type.\n */\n@SinceKotlin(\"1.1\")\npublic abstract class AbstractMap<K, out V> protected constructor() : Map<K, V> {\n\n    override fun containsKey(key: K): Boolean {\n        return implFindEntry(key) != null\n    }\n\n    override fun containsValue(value: @UnsafeVariance V): Boolean = entries.any { it.value == value }\n\n    internal fun containsEntry(entry: Map.Entry<*, *>?): Boolean {\n        // since entry comes from @UnsafeVariance parameters it can be virtually anything\n        if (entry !is Map.Entry<*, *>) return false\n        val key = entry.key\n        val value = entry.value\n        val ourValue = get(key)\n\n        if (value != ourValue) {\n            return false\n        }\n\n        // Perhaps it was null and we don't contain the key?\n        if (ourValue == null && !containsKey(key))
 {\n            return false\n        }\n\n        return true\n    }\n\n\n    /**\n     * Compares this map with other instance with the ordered structural equality.\n     *\n     * @return true, if [other] instance is a [Map] of the same size, all entries of which are contained in the [entries] set of this map.\n     */\n    override fun equals(other: Any?): Boolean {\n        if (other === this) return true\n        if (other !is Map<*, *>) return false\n        if (size != other.size) return false\n\n        return other.entries.all { containsEntry(it) }\n    }\n\n    override operator fun get(key: K): V? = implFindEntry(key)?.value\n\n\n    /**\n     * Returns the hash code value for this map.\n     *\n     * It is the same as the hashCode of [entries] set.\n     */\n    override fun hashCode(): Int = entries.hashCode()\n\n    override fun isEmpty(): Boolean = size == 0\n    override val size: Int get() = entries.size\n\n    /**\n     * Returns a read-only [Set] of all keys
 in this map.\n     *\n     * Accessing this property first time creates a keys view from [entries].\n     * All subsequent accesses just return the created instance.\n     */\n    override val keys: Set<K>\n        get() {\n            if (_keys == null) {\n                _keys = object : AbstractSet<K>() {\n                    override operator fun contains(element: K): Boolean = containsKey(element)\n\n                    override operator fun iterator(): Iterator<K> {\n                        val entryIterator = entries.iterator()\n                        return object : Iterator<K> {\n                            override fun hasNext(): Boolean = entryIterator.hasNext()\n                            override fun next(): K = entryIterator.next().key\n                        }\n                    }\n\n                    override val size: Int get() = this@AbstractMap.size\n                }\n            }\n            return _keys!!\n        }\n\n    @kotlin.jvm.Volatile\n    private
 var _keys: Set<K>? = null\n\n\n    override fun toString(): String = entries.joinToString(\", \", \"{\", \"}\") { toString(it) }\n\n    private fun toString(entry: Map.Entry<K, V>): String = toString(entry.key) + \"=\" + toString(entry.value)\n\n    private fun toString(o: Any?): String = if (o === this) \"(this Map)\" else o.toString()\n\n    /**\n     * Returns a read-only [Collection] of all values in this map.\n     *\n     * Accessing this property first time creates a values view from [entries].\n     * All subsequent accesses just return the created instance.\n     */\n    override val values: Collection<V>\n        get() {\n            if (_values == null) {\n                _values = object :
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AbstractCollection<V>() {\n override operator fun contains(element: @UnsafeVariance V): Boolean = containsValue(element)\n\n override operator fun iterator(): Iterator<V> {\n val entryIterator = entries.iterator()\n return object : Iterator<V> {\n override fun hasNext(): Boolean = entryIterator.hasNext()\n override fun next(): V = entryIterator.next().value\n }\n }\n\n override val size: Int get() = this@AbstractMap.size\n }\n }\n return _values!!\n }\n\n @kotlin.jvm.Volatile\n private var _values: Collection<V>? = null\n\n private fun implFindEntry(key: K): Map.Entry<K, V>? = entries.firstOrNull { it.key == key }\n\n internal companion object {\n\n internal fun entryHashCode(e: Map.Entry<*, *>): Int = with(e) { (key?.hashCode() ?: 0) xor (value?.hashCode() ?: 0) }\n internal fun entryToString(e: Map.Entry<*, *>): String = with(e) { \"$key=$value\" }\n internal fun entryEquals(e: Map.Entry<*, *>, other: Any?): Boolean {\n if (other !is Map.Entry<*, *>) return false\n return e.key == other.key && e.value == other.value\n }\n }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\npackage kotlin.collections\n\n/**\n * Provides a skeletal implementation of the read-only [Set] interface.\n *\n * This class is intended to help implementing read-only sets so it doesn't support concurrent modification tracking.\n *\n * @param E the type of elements contained in the set. The set is covariant on its element type.\n */\n@SinceKotlin(\"1.1\")\npublic abstract class AbstractSet<out E> protected constructor() : AbstractCollection<E>(), Set<E> {\n\n /**\n * Compares this set with other set instance with the unordered structural equality.\n *\n * @return true, if [other] instance is a [Set] of the same size, all elements of which are contained in this set.\n */\n override fun equals(other: Any?): Boolean {\n if (other === this) return true\n if (other !is Set<*>) return false\n return setEquals(this, other)\n }\n\n /**\n * Returns the hash code value for this set.\n */\n override fun hashCode(): Int = unorderedHashCode(this)\n\n internal companion object {\n internal fun unorderedHashCode(c: Collection<*>): Int {\n var hashCode = 0\n for (element in c) {\n hashCode += (element?.hashCode() ?: 0)\n }\n return hashCode\n }\n\n internal fun setEquals(c: Set<*>, other: Set<*>): Boolean {\n if (c.size != other.size) return false\n return c.containsAll(other)\n }\n }\n\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"ArraysKt\")\n\n\npackage kotlin.collections\n\nimport kotlin.contracts.*\n\n\n/**\n * Returns a single list of all elements from all arrays in the given array.\n * @sample samples.collections.Arrays.Transformations.flattenArray\n */\npublic fun <T> Array<out Array<out T>>.flatten(): List<T> {\n val result = ArrayList<T>(sumBy { it.size })\n for (element in this) {\n result.addAll(element)\n }\n return result\n}\n\n/**\n * Returns a pair of lists, where\n * *first* list is built from the first values of each pair from this array,\n * *second* list is built from the second values of each pair from this array.\n * @sample samples.collections.Arrays.Transformations.unzipArray\n */\npublic fun <T, R> Array<out Pair<T, R>>.unzip(): Pair<List<T>, List<R>> {\n val listT = ArrayList<T>(size)\n val listR = ArrayList<R>(size)\n for (pair in this) {\n listT.add(pair.first)\n listR.add(pair.second)\n }\n return listT to listR\n}\n\n/**\n * Returns `true` if this nullable array is either null or empty.\n * @sample samples.collections.Arrays.Usage.arrayIsNullOrEmpty\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline fun Array<*>?.isNullOrEmpty(): Boolean {\n contract {\n returns(false) implies (this@isNullOrEmpty != null)\n }\n\n return this == null || this.isEmpty()\n}\n\n/**\n * Returns this array if it's not empty\n * or the result of calling [defaultValue] function if the array is empty.\n *\n * @sample samples.collections.Arrays.Usage.arrayIfEmpty\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Suppress(\"UPPER_BOUND_CANNOT_BE_ARRAY\")\npublic inline fun <C, R> C.ifEmpty(defaultValue: () -> R): R where C : Array<*>, C : R =\n if (isEmpty())
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defaultValue() else
this\n\n\n@UseExperimental(ExperimentalUnsignedTypes::class)\n@SinceKotlin(\"1.3\")\n@PublishedApi\n@kotlin.jvm.JvmName(\"contentDeepEquals\")\n@kotlin.js.JsName(\"contentDeepEqualsImpl\")\ninternal
 fun <T> Array<out T>.contentDeepEqualsImpl(other: Array<out T>): Boolean {\n    if (this === other) return true\n    if (this.size != other.size) return false\n\n    for (i in indices) {\n        val v1 = this[i]\n        val v2 = other[i]\n\n        if (v1 === v2) {\n            continue\n        } else if (v1 == null || v2 == null) {\n            return false\n        }\n\n        when {\n            v1 is Array<*>     && v2 is Array<*>     -> if (!v1.contentDeepEquals(v2)) return false\n            v1 is ByteArray    && v2 is ByteArray    -> if (!v1.contentEquals(v2)) return false\n            v1 is ShortArray   && v2 is ShortArray   -> if (!v1.contentEquals(v2)) return false\n            v1 is IntArray     && v2 is IntArray     -> if (!v1.contentEquals(v2)) return false\n            v1 is LongArray    && v2 is LongArray    -> if (!v1.contentEquals(v2)) return false\n            v1 is FloatArray   && v2 is FloatArray   -> if (!v1.contentEquals(v2)) return false\n
        v1 is DoubleArray  && v2 is DoubleArray  -> if (!v1.contentEquals(v2)) return false\n            v1 is CharArray && v2 is CharArray    -> if (!v1.contentEquals(v2)) return false\n            v1 is BooleanArray && v2 is BooleanArray -> if (!v1.contentEquals(v2)) return false\n\n            v1 is UByteArray   && v2 is UByteArray   -> if (!v1.contentEquals(v2)) return false\n            v1 is UShortArray  && v2 is UShortArray  -> if (!v1.contentEquals(v2)) return false\n            v1 is UIntArray    && v2 is UIntArray    -> if (!v1.contentEquals(v2)) return false\n            v1 is ULongArray   && v2 is ULongArray   -> if (!v1.contentEquals(v2)) return false\n\n            else -> if (v1 != v2) return false\n        }\n\n    }\n    return true\n}\n\n@SinceKotlin(\"1.3\")\n@PublishedApi\n@kotlin.jvm.JvmName(\"contentDeepToString\")\n@kotlin.js.JsName(\"contentDeepToStringImpl\")\ninternal fun <T> Array<out T>.contentDeepToStringImpl(): String {\n    val length = size.coerceAtMost((Int.MAX_VALUE
 - 2) / 5) * 5 + 2 // in order not to overflow Int.MAX_VALUE\n    return buildString(length) {\n        contentDeepToStringInternal(this, mutableListOf())\n    }\n}\n\n@UseExperimental(ExperimentalUnsignedTypes::class)\nprivate fun <T> Array<out T>.contentDeepToStringInternal(result: StringBuilder, processed: MutableList<Array<*>>) {\n    if (this in processed) {\n        result.append(\"[...]\")\n        return\n    }\n    processed.add(this)\n    result.append('[')\n\n    for (i in indices) {\n        if (i != 0) {\n            result.append(\", \")\n        }\n        val element = this[i]\n        when (element) {\n            null            -> result.append(\"null\")\n            is Array<*>     -> element.contentDeepToStringInternal(result, processed)\n            is ByteArray    -> result.append(element.contentToString())\n            is ShortArray   -> result.append(element.contentToString())\n            is IntArray     -> result.append(element.contentToString())\n
            is LongArray    -> result.append(element.contentToString())\n            is FloatArray   -> result.append(element.contentToString())\n            is DoubleArray  -> result.append(element.contentToString())\n            is CharArray    -> result.append(element.contentToString())\n            is BooleanArray -> result.append(element.contentToString())\n\n            is UByteArray   -> result.append(element.contentToString())\n            is UShortArray  -> result.append(element.contentToString())\n            is UIntArray    -> result.append(element.contentToString())\n            is ULongArray   -> result.append(element.contentToString())\n\n            else            -> result.append(element.toString())\n        }\n    }\n\n    result.append(']')\n    processed.removeAt(processed.lastIndex)\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in
 the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n/**\n * Data class representing a value from a collection or sequence, along with its index in that collection or sequence.\n *\n * @property value the underlying value.\n * @property index the index of the value in the collection or sequence.\n */\npublic data class IndexedValue<out T>(public val index: Int, public val value: T)\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"MapAccessorsKt\")\n\npackage kotlin.collections\n\nimport kotlin.reflect.KProperty\nimport kotlin.internal.Exact\n\n/**\n * Returns the value of
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the property for the given object from this read-only map.\n * @param thisRef the object for which the value is requested (not used).\n * @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.\n * @return the property value.\n *\n * @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V> Map<in String, @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\n @Suppress(\"UNCHECKED_CAST\") (getOrImplicitDefault(property.name) as V1)\n\n/**\n * Returns the value of the property for the given object from this mutable map.\n * @param thisRef the object for which the value is requested (not used).\n * @param property the metadata for the property, used to get the name of property and lookup the value corresponding to this name in the map.\n * @return the property value.\n *\n * @throws NoSuchElementException when the map doesn't contain value for the property name and doesn't provide an implicit default (see [withDefault]).\n */\n@kotlin.jvm.JvmName(\"getVar\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <V, V1 : V> MutableMap<in String, out @Exact V>.getValue(thisRef: Any?, property: KProperty<*>): V1 =\n @Suppress(\"UNCHECKED_CAST\") (getOrImplicitDefault(property.name) as V1)\n\n@Deprecated(\"Use getValue() with two type parameters instead\", level = DeprecationLevel.ERROR)\n@kotlin.jvm.JvmName(\"getVarContravariant\")\n@kotlin.internal.LowPriorityInOverloadResolution\n@kotlin.internal.InlineOnly\npublic inline fun <V> MutableMap<in String, in V>.getValue(thisRef: Any?, property: KProperty<*>): V =\n @Suppress(\"UNCHECKED_CAST\") (getOrImplicitDefault(property.name) as V)\n\n/**\n * Stores the value of the property for the given object in this mutable map.\n * @param thisRef the object for which the value is requested (not used).\n * @param property the metadata for the property, used to get the name of property and store the value associated with that name in the map.\n * @param value the value to set.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <V> MutableMap<in String, in V>.setValue(thisRef: Any?, property: KProperty<*>, value: V) {\n this.put(property.name, value)\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"MapsKt\")\n\npackage kotlin.collections\n\n/**\n * Returns the value for the given key, or the implicit default value for this map.\n * By default no implicit value is provided for maps and a [NoSuchElementException] is thrown.\n * To create a map with implicit default value use [withDefault] method.\n *\n * @throws NoSuchElementException when the map doesn't contain a value for the specified key and no implicit default was provided for that map.\n */\n@kotlin.jvm.JvmName(\"getOrImplicitDefaultNullable\")\n@PublishedApi\ninternal fun <K, V> Map<K, V>.getOrImplicitDefault(key: K): V {\n if (this is MapWithDefault)\n return this.getOrImplicitDefault(key)\n\n return getOrElseNullable(key, { throw NoSuchElementException(\"Key $key is missing in the map.\") })\n}\n\n/**\n * Returns a wrapper of this read-only map, having the implicit default value provided with the specified function [defaultValue].\n *\n * This implicit default value is used when the original map doesn't contain a value for the key specified\n * and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.\n *\n * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\n */\npublic fun <K, V> Map<K, V>.withDefault(defaultValue: (key: K) -> V): Map<K, V> =\n when (this) {\n is MapWithDefault -> this.map.withDefault(defaultValue)\n else -> MapWithDefaultImpl(this, defaultValue)\n }\n\n/**\n * Returns a wrapper of this mutable map, having the implicit default value provided with the specified function [defaultValue].\n *\n * This implicit default value is used when the original map doesn't contain a value for the key specified\n * and a value is obtained with [Map.getValue] function, for example when properties are delegated to the map.\n *\n * When this map already has an implicit default value provided with a former call to [withDefault], it is being replaced by this call.\n */\n@kotlin.jvm.JvmName(\"withDefaultMutable\")\npublic fun <K, V> MutableMap<K, V>.withDefault(defaultValue: (key: K) -> V): MutableMap<K, V> =\n when (this) {\n is MutableMapWithDefault -> this.map.withDefault(defaultValue)\n else ->

MutableMapWithDefaultImpl(this, defaultValue)\n   }\n\n\nprivate interface MapWithDefault<K, out V> : Map<K, V> {\n   public val map: Map<K, V>\n   public fun getOrImplicitDefault(key: K): V\n}\n\nprivate interface MutableMapWithDefault<K,
 V> : MutableMap<K, V>, MapWithDefault<K, V> {\n   public override val map: MutableMap<K, V>\n}\n\n\nprivate class MapWithDefaultImpl<K, out V>(public override val map: Map<K, V>, private val default: (key: K) -> V) : MapWithDefault<K, V> {\n   override fun equals(other: Any?): Boolean = map.equals(other)\n   override fun hashCode(): Int = map.hashCode()\n   override fun toString(): String = map.toString()\n   override val size: Int get() = map.size\n   override fun isEmpty(): Boolean = map.isEmpty()\n   override fun containsKey(key: K): Boolean = map.containsKey(key)\n   override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)\n   override fun get(key: K): V? = map.get(key)\n   override val keys: Set<K> get() = map.keys\n   override val values: Collection<V> get() = map.values\n   override val entries: Set<Map.Entry<K, V>> get() = map.entries\n\n   override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key)
 })\n}\n\nprivate class MutableMapWithDefaultImpl<K, V>(public override val map: MutableMap<K, V>, private val default: (key: K) -> V) : MutableMapWithDefault<K, V> {\n   override fun equals(other: Any?): Boolean = map.equals(other)\n   override fun hashCode(): Int = map.hashCode()\n   override fun toString(): String = map.toString()\n   override val size: Int get() = map.size\n   override fun isEmpty(): Boolean = map.isEmpty()\n   override fun containsKey(key: K): Boolean = map.containsKey(key)\n   override fun containsValue(value: @UnsafeVariance V): Boolean = map.containsValue(value)\n   override fun get(key: K): V? = map.get(key)\n   override val keys: MutableSet<K> get() = map.keys\n   override val values: MutableCollection<V> get() = map.values\n   override val entries: MutableSet<MutableMap.MutableEntry<K, V>> get() = map.entries\n\n   override fun put(key: K, value: V): V? = map.put(key, value)\n   override fun remove(key: K): V? = map.remove(key)\n   override fun
 putAll(from: Map<out K, V>) = map.putAll(from)\n   override fun clear() = map.clear()\n\n   override fun getOrImplicitDefault(key: K): V = map.getOrElseNullable(key, { default(key) })\n}\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\nimport kotlin.random.Random\n\n/**\n * Removes a single instance of the specified element from this\n * collection, if it is present.\n *\n * Allows to overcome type-safety restriction of `remove` that requires to pass an element of type `E`.\n *\n * @return `true` if the element has been successfully removed; `false` if it was not present in the collection.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.remove(element:
 T): Boolean =\n   @Suppress(\"UNCHECKED_CAST\") (this as MutableCollection<T>).remove(element)\n\n/**\n * Removes all of this collection's elements that are also contained in the specified collection.\n\n * Allows to overcome type-safety restriction of `removeAll` that requires to pass a collection of type `Collection<E>`.\n *\n * @return `true` if any of the specified elements was removed from the collection, `false` if the collection was not modified.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.removeAll(elements: Collection<T>): Boolean =\n   @Suppress(\"UNCHECKED_CAST\") (this as MutableCollection<T>).removeAll(elements)\n\n/**\n * Retains only the elements in this collection that are contained in the specified collection.\n *\n * Allows to overcome type-safety restriction of `retainAll` that requires to pass a collection of type `Collection<E>`.\n *\n * @return `true` if any element was removed
 from the collection, `false` if the collection was not modified.\n */\n@kotlin.internal.InlineOnly\npublic inline fun <@kotlin.internal.OnlyInputTypes T> MutableCollection<out T>.retainAll(elements: Collection<T>): Boolean =\n   @Suppress(\"UNCHECKED_CAST\") (this as MutableCollection<T>).retainAll(elements)\n\n/**\n * Removes the element at the specified [index] from this list.\n * In Kotlin one should use the [MutableList.removeAt] function instead.\n */\n@Deprecated(\"Use removeAt(index) instead.\", ReplaceWith(\"removeAt(index)\"), level =

DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline fun <T> MutableList<T>.remove(index: Int): T = removeAt(index)\n\n/**\n * Adds the specified [element] to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(element: T) {\n this.add(element)\n}\n\n/**\n * Adds all elements of the given [elements] collection to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic
inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Iterable<T>) {\n this.addAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] array to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Array<T>) {\n this.addAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] sequence to this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.plusAssign(elements: Sequence<T>) {\n this.addAll(elements)\n}\n\n/**\n * Removes a single instance of the specified [element] from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(element: T) {\n this.remove(element)\n}\n\n/**\n * Removes all elements contained in the given [elements] collection from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic
inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Iterable<T>) {\n this.removeAll(elements)\n}\n\n/**\n * Removes all elements contained in the given [elements] array from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Array<T>) {\n this.removeAll(elements)\n}\n\n/**\n * Removes all elements contained in the given [elements] sequence from this mutable collection.\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> MutableCollection<in T>.minusAssign(elements: Sequence<T>) {\n this.removeAll(elements)\n}\n\n/**\n * Adds all elements of the given [elements] collection to this [MutableCollection].\n */\npublic fun <T> MutableCollection<in T>.addAll(elements: Iterable<T>): Boolean {\n when (elements) {\n is Collection -> return addAll(elements)\n else -> {\n var result: Boolean = false\n for (item in elements)\n if (add(item)) result = true\n return result\n }\n }\n}\n\n/**\n * Adds all elements of the given [elements] sequence to this [MutableCollection].\n */\npublic fun <T> MutableCollection<in T>.addAll(elements: Sequence<T>): Boolean {\n var result: Boolean = false\n for (item in elements) {\n if (add(item)) result = true\n }\n return result\n}\n\n/**\n * Adds all elements of the given [elements] array to this [MutableCollection].\n */\npublic fun <T> MutableCollection<in T>.addAll(elements: Array<out T>): Boolean {\n return addAll(elements.asList())\n}\n\n/**\n * Removes all elements from this [MutableIterable] that match the given [predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when no elements were removed and collection was not modified.\n */\npublic fun <T> MutableIterable<T>.removeAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, true)\n\n/**\n * Retains only
elements of this [MutableIterable] that match the given [predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when all elements were retained and collection was not modified.\n */\npublic fun <T> MutableIterable<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)\n\nprivate fun <T> MutableIterable<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {\n var result = false\n with(iterator()) {\n while (hasNext())\n if (predicate(next()) == predicateResultToRemove) {\n remove()\n result = true\n }\n }\n return result\n}\n\n/**\n * Removes all elements from this [MutableList] that match the given [predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when no elements were removed and collection was not modified.\n */\npublic fun <T> MutableList<T>.removeAll(predicate: (T)
-> Boolean): Boolean = filterInPlace(predicate, true)\n\n/**\n * Retains only elements of this [MutableList] that match the given [predicate].\n *\n * @return `true` if any element was removed from this collection, or `false` when all elements were retained and collection was not modified.\n */\npublic fun <T> MutableList<T>.retainAll(predicate: (T) -> Boolean): Boolean = filterInPlace(predicate, false)\n\nprivate fun <T> MutableList<T>.filterInPlace(predicate: (T) -> Boolean, predicateResultToRemove: Boolean): Boolean {\n if (this

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!is RandomAccess)\n        return (this as MutableIterable<T>).filterInPlace(predicate, predicateResultToRemove)\n\n    var writeIndex: Int = 0\n    for (readIndex in 0..lastIndex) {\n        val element = this[readIndex]\n        if (predicate(element) == predicateResultToRemove)\n            continue\n\n        if (writeIndex != readIndex)\n            this[writeIndex] = element\n\n        writeIndex++\n    }\n    if (writeIndex < size) {\n        for (removeIndex in lastIndex downTo writeIndex)\n            removeAt(removeIndex)\n\n        return true\n    } else {\n        return false\n    }\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] collection.\n */\npublic fun <T> MutableCollection<in T>.removeAll(elements: Iterable<T>): Boolean {\n    return removeAll(elements.convertToSetForSetOperationWith(this))\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] sequence.\n */\npublic fun <T> MutableCollection<in T>.removeAll(elements: Sequence<T>): Boolean {\n    val set = elements.toHashSet()\n    return set.isNotEmpty() && removeAll(set)\n}\n\n/**\n * Removes all elements from this [MutableCollection] that are also contained in the given [elements] array.\n */\npublic fun <T> MutableCollection<in T>.removeAll(elements: Array<out T>): Boolean {\n    return elements.isNotEmpty() && removeAll(elements.toHashSet())\n}\n\n/**\n * Retains only elements of this [MutableCollection] that are contained in the given [elements] collection.\n */\npublic fun <T> MutableCollection<in T>.retainAll(elements: Iterable<T>): Boolean {\n    return retainAll(elements.convertToSetForSetOperationWith(this))\n}\n\n/**\n * Retains only elements of this [MutableCollection] that are contained in the given [elements] array.\n */\npublic fun <T> MutableCollection<in T>.retainAll(elements: Array<out T>): Boolean {\n    if (elements.isNotEmpty())\n        return retainAll(elements.toHashSet())\n    else\n        return retainNothing()\n}\n\n/**\n * Retains only elements of this [MutableCollection] that are contained in the given [elements] sequence.\n */\npublic fun <T> MutableCollection<in T>.retainAll(elements: Sequence<T>): Boolean {\n    val set = elements.toHashSet()\n    if (set.isNotEmpty())\n        return retainAll(set)\n    else\n        return retainNothing()\n}\n\nprivate fun MutableCollection<*>.retainNothing(): Boolean {\n    val result = isNotEmpty()\n    clear()\n    return result\n}\n\n/**\n * Randomly shuffles elements in this mutable list using the specified [random] instance as the source of randomness.\n *\n * See: https://en.wikipedia.org/wiki/Fisher%E2%80%93Yates_shuffle#The_modern_algorithm\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> MutableList<T>.shuffle(random: Random): Unit {\n    for (i in lastIndex downTo 1) {\n        val j = random.nextInt(i + 1)\n        val copy = this[i]\n        this[i] = this[j]\n        this[j] = copy\n    }\n}\n\n/**\n * Returns a new list with the elements of this list randomly shuffled\n * using the specified [random] instance as the source of randomness.\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> Iterable<T>.shuffled(random: Random): List<T> = toMutableList().apply { shuffle(random) }\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CollectionsKt\")\n\npackage kotlin.collections\n\nprivate open class ReversedListReadOnly<out T>(private val delegate: List<T>) : AbstractList<T>() {\n    override val size: Int get() = delegate.size\n    override fun get(index: Int): T = delegate[reverseElementIndex(index)]\n}\n\nprivate class ReversedList<T>(private val delegate: MutableList<T>) : AbstractMutableList<T>() {\n    override val size: Int get() = delegate.size\n    override fun get(index: Int): T = delegate[reverseElementIndex(index)]\n\n    override fun clear() = delegate.clear()\n    override fun removeAt(index: Int): T = delegate.removeAt(reverseElementIndex(index))\n\n    override fun set(index: Int, element: T): T = delegate.set(reverseElementIndex(index), element)\n    override fun add(index: Int, element: T) {\n        delegate.add(reversePositionIndex(index), element)\n    }\n}\n\nprivate fun List<*>.reverseElementIndex(index: Int) =\n    if (index in 0..lastIndex) lastIndex - index else throw IndexOutOfBoundsException(\"Element index $index must be in range [${0..lastIndex}].\")\n\nprivate fun List<*>.reversePositionIndex(index: Int) =\n    if (index in 0..size) size - index else throw IndexOutOfBoundsException(\"Position index $index must be in range [${0..size}].\")\n\n\n/**\n * Returns a reversed read-only view of the original List.\n * All changes made in the original list will be reflected in the reversed
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one.\n * @sample samples.collections.ReversedViews.asReversedList\n */\npublic fun <T> List<T>.asReversed(): List<T> = ReversedListReadOnly(this)\n\n/**\n * Returns a reversed mutable view of the original mutable List.\n * All changes made in the original list will be reflected in the reversed one and vice versa.\n * @sample samples.collections.ReversedViews.asReversedMutableList\n */\n@kotlin.jvm.JvmName(\"asReversedMutable\")\npublic fun <T> MutableList<T>.asReversed(): MutableList<T> = ReversedList(this)\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"SequencesKt\")\n@file:UseExperimental(ExperimentalTypeInference::class)\n\npackage kotlin.sequences\n\nimport kotlin.coroutines.*\nimport kotlin.coroutines.intrinsics.*\nimport kotlin.experimental.ExperimentalTypeInference\n\n/**\n * Builds a [Sequence] lazily yielding values one by one.\n *\n * @see kotlin.sequences.generateSequence\n *\n * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample samples.collections.Sequences.Building.buildFibonacciSequence\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> sequence(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Sequence<T> = Sequence { iterator(block) }\n\n@SinceKotlin(\"1.3\")\n@Deprecated(\"Use 'sequence { }' function instead.\", ReplaceWith(\"sequence(builderAction)\"), level = DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline fun <T> buildSequence(@BuilderInference noinline builderAction: suspend SequenceScope<T>.() -> Unit): Sequence<T> = Sequence { iterator(builderAction) }\n\n/**\n * Builds an [Iterator] lazily yielding values one by one.\n *\n * @sample samples.collections.Sequences.Building.buildIterator\n * @sample samples.collections.Iterables.Building.iterable\n */\n@SinceKotlin(\"1.3\")\npublic fun <T> iterator(@BuilderInference block: suspend SequenceScope<T>.() -> Unit): Iterator<T> {\n   val iterator = SequenceBuilderIterator<T>()\n   iterator.nextStep = block.createCoroutineUnintercepted(receiver = iterator, completion = iterator)\n   return iterator\n}\n\n@SinceKotlin(\"1.3\")\n@Deprecated(\"Use 'iterator { }' function instead.\", ReplaceWith(\"iterator(builderAction)\"), level = DeprecationLevel.ERROR)\n@kotlin.internal.InlineOnly\npublic inline fun <T> buildIterator(@BuilderInference noinline builderAction: suspend SequenceScope<T>.() -> Unit): Iterator<T> = iterator(builderAction)\n\n/**\n * The scope for yielding values of a [Sequence] or an [Iterator], provides [yield] and [yieldAll] suspension functions.\n *\n * @see sequence\n * @see iterator\n *\n * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n * @sample samples.collections.Sequences.Building.buildFibonacciSequence\n */\n@RestrictsSuspension\n@SinceKotlin(\"1.3\")\npublic abstract class SequenceScope<in T> internal constructor() {\n   /**\n   * Yields a value to the [Iterator] being built and suspends\n   * until the next value is requested.\n   *\n   * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n   * @sample samples.collections.Sequences.Building.buildFibonacciSequence\n   */\n   public abstract suspend fun yield(value: T)\n\n   /**\n   * Yields all values from the `iterator` to the [Iterator] being built\n   * and suspends until all these values are iterated and the next one is requested.\n   *\n   * The sequence of values returned by the given iterator can be potentially infinite.\n   *\n   * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n   */\n   public abstract suspend fun yieldAll(iterator: Iterator<T>)\n\n   /**\n   * Yields a collections of values to the [Iterator] being built\n   * and suspends until all these values are iterated and the next one is requested.\n   *\n   * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n   */\n   public suspend fun yieldAll(elements: Iterable<T>) {\n   if (elements is Collection && elements.isEmpty()) return\n   return yieldAll(elements.iterator())\n   }\n\n   /**\n   * Yields potentially infinite sequence of values to the [Iterator] being built\n   * and suspends until all these values are iterated and the next one is requested.\n   *\n   * The sequence can be potentially infinite.\n   *\n   * @sample samples.collections.Sequences.Building.buildSequenceYieldAll\n   */\n   public suspend fun yieldAll(sequence: Sequence<T>) = yieldAll(sequence.iterator())\n}\n\n@Deprecated(\"Use SequenceScope class instead.\",

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ReplaceWith(\"SequenceScope<T>\"), level = DeprecationLevel.ERROR)\npublic typealias SequenceBuilder<T> = SequenceScope<T>\n\nprivate typealias State = Int\n\nprivate const val State_NotReady: State = 0\nprivate const val State_ManyNotReady: State = 1\nprivate const val State_ManyReady: State = 2\nprivate const val State_Ready: State = 3\nprivate const val State_Done: State = 4\nprivate const val State_Failed: State = 5\n\nprivate class SequenceBuilderIterator<T> : SequenceScope<T>(), Iterator<T>, Continuation<Unit> {\n    private var state = State_NotReady\n    private var nextValue: T? = null\n    private var nextIterator: Iterator<T>? = null\n    var nextStep: Continuation<Unit>? = null\n\n    override fun hasNext(): Boolean {\n        while (true) {\n            when (state) {\n                State_NotReady -> {}\n                State_ManyNotReady ->\n                    if (nextIterator!!.hasNext()) {\n                        state = State_ManyReady\n                        return true\n                    } else {\n                        nextIterator = null\n                    }\n                State_Done -> return false\n                State_Ready, State_ManyReady -> return true\n                else -> throw exceptionalState()\n            }\n\n            state = State_Failed\n            val step = nextStep!!\n            nextStep = null\n            step.resume(Unit)\n        }\n    }\n\n    override fun next(): T {\n        when (state) {\n            State_NotReady, State_ManyNotReady -> return nextNotReady()\n            State_ManyReady -> {\n                state = State_ManyNotReady\n                return nextIterator!!.next()\n            }\n            State_Ready -> {\n                state = State_NotReady\n                @Suppress(\"UNCHECKED_CAST\")\n                val result = nextValue as T\n                nextValue = null\n                return result\n            }\n            else -> throw exceptionalState()\n        }\n    }\n\n    private fun nextNotReady(): T {\n        if (!hasNext()) throw NoSuchElementException() else return next()\n    }\n\n    private fun exceptionalState(): Throwable = when (state) {\n        State_Done -> NoSuchElementException()\n        State_Failed -> IllegalStateException(\"Iterator has failed.\")\n        else -> IllegalStateException(\"Unexpected state of the iterator: $state\")\n    }\n\n\n    override suspend fun yield(value: T) {\n        nextValue = value\n        state = State_Ready\n        return suspendCoroutineUninterceptedOrReturn { c ->\n            nextStep = c\n            COROUTINE_SUSPENDED\n        }\n    }\n\n    override suspend fun yieldAll(iterator: Iterator<T>) {\n        if (!iterator.hasNext()) return\n        nextIterator = iterator\n        state = State_ManyReady\n        return suspendCoroutineUninterceptedOrReturn { c ->\n            nextStep = c\n            COROUTINE_SUSPENDED\n        }\n    }\n\n    // Completion continuation implementation\n    override fun resumeWith(result: Result<Unit>) {\n        result.getOrThrow() // just rethrow exception if it is there\n        state = State_Done\n    }\n\n    override val context: CoroutineContext\n        get() = EmptyCoroutineContext\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\ninternal fun checkWindowSizeStep(size: Int, step: Int) {\n    require(size > 0 && step > 0) {\n        if (size != step)\n            \"Both size $size and step $step must be greater than zero.\"\n        else\n            \"size $size must be greater than zero.\"\n    }\n}\n\ninternal fun <T> Sequence<T>.windowedSequence(size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Sequence<List<T>> {\n    checkWindowSizeStep(size, step)\n    return Sequence { windowedIterator(iterator(), size, step, partialWindows, reuseBuffer) }\n}\n\ninternal fun <T> windowedIterator(iterator: Iterator<T>, size: Int, step: Int, partialWindows: Boolean, reuseBuffer: Boolean): Iterator<List<T>> {\n    if (!iterator.hasNext()) return EmptyIterator\n    return iterator<List<T>> {\n        val bufferInitialCapacity = size.coerceAtMost(1024)\n        val gap = step - size\n        if (gap >= 0) {\n            var buffer = ArrayList<T>(bufferInitialCapacity)\n            var skip = 0\n            for (e in iterator) {\n                if (skip > 0) { skip -= 1; continue }\n                buffer.add(e)\n                if (buffer.size == size) {\n                    yield(buffer)\n                    if (reuseBuffer) buffer.clear() else buffer = ArrayList(size)\n                    skip = gap\n                }\n            }\n            if (buffer.isNotEmpty()) {\n                if (partialWindows || buffer.size == size) yield(buffer)\n            }\n        } else {\n            var buffer = RingBuffer<T>(bufferInitialCapacity)\n            for (e in iterator) {\n                buffer.add(e)\n                if (buffer.isFull()) {\n                    if (buffer.size < size) { buffer = buffer.expanded(maxCapacity = size); continue }\n\n                    yield(if (reuseBuffer) buffer else ArrayList(buffer))\n                    buffer.removeFirst(step)\n                }\n            }\n            if (partialWindows) {\n                while (buffer.size > step)
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{\n yield(if (reuseBuffer) buffer else ArrayList(buffer))\n buffer.removeFirst(step)\n }\n if (buffer.isNotEmpty()) yield(buffer)\n }\n }\n }\n}\n\ninternal class MovingSubList<out E>(private val list: List<E>) : AbstractList<E>(), RandomAccess {\n private var fromIndex: Int = 0\n private var _size: Int = 0\n\n fun move(fromIndex: Int, toIndex: Int) {\n checkRangeIndexes(fromIndex, toIndex, list.size)\n this.fromIndex = fromIndex\n this._size = toIndex - fromIndex\n }\n\n override fun get(index: Int): E {\n checkElementIndex(index, _size)\n\n return list[fromIndex + index]\n }\n\n override val size: Int get() = _size\n}\n\n\n/**\n * Provides ring buffer implementation.\n *\n * Buffer overflow is not allowed so [add] doesn't overwrite tail but raises an exception.\n */\nprivate class RingBuffer<T>(private val buffer: Array<Any?>, filledSize: Int) : AbstractList<T>(), RandomAccess {\n init {\n require(filledSize >= 0) { \"ring buffer filled size should not be negative but it is $filledSize\" }\n require(filledSize <= buffer.size) { \"ring buffer filled size: $filledSize cannot be larger than the buffer size: ${buffer.size}\" }\n }\n\n constructor(capacity: Int) : this(arrayOfNulls<Any?>(capacity), 0)\n\n private val capacity = buffer.size\n private var startIndex: Int = 0\n\n override var size: Int = filledSize\n private set\n\n override fun get(index: Int): T {\n checkElementIndex(index, size)\n @Suppress(\"UNCHECKED_CAST\")\n return buffer[startIndex.forward(index)] as T\n }\n\n fun isFull() = size == capacity\n\n override fun iterator(): Iterator<T> = object : AbstractIterator<T>() {\n private var count = size\n private var index = startIndex\n\n override fun computeNext() {\n if (count == 0) {\n done()\n } else {\n @Suppress(\"UNCHECKED_CAST\")\n setNext(buffer[index] as T)\n index = index.forward(1)\n count--\n }\n }\n }\n\n @Suppress(\"UNCHECKED_CAST\")\n override fun <T> toArray(array: Array<T>): Array<T> {\n val result: Array<T?> =\n if (array.size < this.size) array.copyOf(this.size) else array as Array<T?>\n\n val size = this.size\n\n var widx = 0\n var idx = startIndex\n\n while (widx < size && idx < capacity) {\n result[widx] = buffer[idx] as T\n widx++\n idx++\n }\n\n idx = 0\n while (widx < size) {\n result[widx] = buffer[idx] as T\n widx++\n idx++\n }\n if (result.size > this.size) result[this.size] = null\n\n return result as Array<T>\n }\n\n override fun toArray(): Array<Any?> {\n return toArray(arrayOfNulls(size))\n }\n\n /**\n * Creates a new ring buffer with the capacity equal to the minimum of [maxCapacity] and 1.5 * [capacity].\n * The returned ring buffer contains the same elements as this ring buffer.\n */\n fun expanded(maxCapacity: Int): RingBuffer<T> {\n val newCapacity = (capacity + (capacity shr 1) + 1).coerceAtMost(maxCapacity)\n val newBuffer = if (startIndex == 0) buffer.copyOf(newCapacity) else toArray(arrayOfNulls(newCapacity))\n return RingBuffer(newBuffer, size)\n }\n\n /**\n * Add [element] to the buffer or fail with [IllegalStateException] if no free space available in the buffer\n */\n fun add(element: T) {\n if (isFull()) {\n throw IllegalStateException(\"ring buffer is full\")\n }\n\n buffer[startIndex.forward(size)] = element\n size++\n }\n\n /**\n * Removes [n] first elements from the buffer or fails with [IllegalArgumentException] if not enough elements in the buffer to remove\n */\n fun removeFirst(n: Int) {\n require(n >= 0) { \"n shouldn't be negative but it is $n\" }\n require(n <= size) { \"n shouldn't be greater than the buffer size: n = $n, size = $size\" }\n\n if (n > 0) {\n val start = startIndex\n val end = start.forward(n)\n\n if (start > end) {\n buffer.fill(null, start, capacity)\n buffer.fill(null, 0, end)\n } else {\n buffer.fill(null, start, end)\n }\n\n startIndex = end\n size -= n\n }\n }\n\n\n@Suppress(\"NOTHING_TO_INLINE\")\n private inline fun Int.forward(n: Int): Int = (this + n) % capacity\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.collections\n\n// UByteArray ==\n@ExperimentalUnsignedTypes\nprivate fun partition(\n array: UByteArray, left: Int, right: Int): Int {\n var i = left\n var j = right\n

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    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: UByteArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// UShortArray ==========\n@ExperimentalUnsignedTypes\nprivate fun partition(\n    array: UShortArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: UShortArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// UIntArray ==========\n@ExperimentalUnsignedTypes\nprivate fun partition(\n    array: UIntArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: UIntArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n// ULongArray ==========\n@ExperimentalUnsignedTypes\nprivate fun partition(\n    array: ULongArray, left: Int, right: Int): Int {\n    var i = left\n    var j = right\n    val pivot = array[(left + right) / 2]\n    while (i <= j) {\n        while (array[i] < pivot)\n            i++\n        while (array[j] > pivot)\n            j--\n        if (i <= j) {\n            val tmp = array[i]\n            array[i] = array[j]\n            array[j] = tmp\n            i++\n            j--\n        }\n    }\n    return i\n}\n\n@ExperimentalUnsignedTypes\nprivate fun quickSort(\n    array: ULongArray, left: Int, right: Int) {\n    val index = partition(array, left, right)\n    if (left < index - 1)\n        quickSort(array, left, index - 1)\n    if (index < right)\n        quickSort(array, index, right)\n}\n\n\n// Interfaces ==========\n\n/**\n * Sorts the given array using qsort algorithm.\n */\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UByteArray)    = quickSort(array, 0, array.size - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UShortArray)   = quickSort(array, 0, array.size - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: UIntArray)     = quickSort(array, 0, array.size - 1)\n@ExperimentalUnsignedTypes\ninternal fun sortArray(array: ULongArray)    = quickSort(array, 0, array.size - 1)","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.contracts\n\nimport kotlin.internal.ContractsDsl\nimport kotlin.internal.InlineOnly\n\n/**\n * This marker distinguishes the experimental contract declaration API and is used to opt-in for that feature\n * when declaring contracts of user functions.\n *\n * Any usage of a declaration annotated with `@ExperimentalContracts` must be accepted either by\n * annotating that usage with the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalContracts::class)`,\n * or by using the compiler argument `-Xuse-experimental=kotlin.contracts.ExperimentalContracts`.\n */\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.3\")\n@Experimental\n@MustBeDocumented\npublic annotation class ExperimentalContracts\n\n/**\n * Provides a scope, where the functions of the contract DSL, such as [returns], [callsInPlace], etc.,\n * can be used to describe the contract of a function.\n
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 *\n * This type is used as a receiver type of the lambda function passed to the [contract] function.\n *\n * @see contract\n */\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin(\"1.3\")\npublic interface ContractBuilder {\n    /**\n     * Describes a situation when a function returns normally, without any exceptions thrown.\n     *\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n     *\n     */\n    // @sample samples.contracts.returnsContract\n    @ContractsDsl public fun returns(): Returns\n\n    /**\n     * Describes a situation when a function returns normally with the specified return [value].\n     *\n     * The possible values of [value] are limited to `true`, `false` or `null`.\n     *\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n     *\n     */\n    // @sample samples.contracts.returnsTrueContract\n    // @sample samples.contracts.returnsFalseContract\n
    // @sample samples.contracts.returnsNullContract\n    @ContractsDsl public fun returns(value: Any?): Returns\n\n    /**\n     * Describes a situation when a function returns normally with any value that is not `null`.\n     *\n     * Use [SimpleEffect.implies] function to describe a conditional effect that happens in such case.\n     *\n     */\n    // @sample samples.contracts.returnsNotNullContract\n    @ContractsDsl public fun returnsNotNull(): ReturnsNotNull\n\n    /**\n     * Specifies that the function parameter [lambda] is invoked in place.\n     *\n     * This contract specifies that:\n     * 1. the function [lambda] can only be invoked during the call of the owner function,\n     *  and it won't be invoked after that owner function call is completed;\n     * 2. _(optionally)_ the function [lambda] is invoked the amount of times specified by the [kind] parameter,\n     *  see the [InvocationKind] enum for possible values.\n     *\n     * A function declaring the `callsInPlace`
 effect must be _inline_.\n     *\n     */\n    /* @sample samples.contracts.callsInPlaceAtMostOnceContract\n     * @sample samples.contracts.callsInPlaceAtLeastOnceContract\n     * @sample samples.contracts.callsInPlaceExactlyOnceContract\n     * @sample samples.contracts.callsInPlaceUnknownContract\n     */\n    @ContractsDsl public fun <R> callsInPlace(lambda: Function<R>, kind: InvocationKind = InvocationKind.UNKNOWN): CallsInPlace\n}\n\n/**\n * Specifies how many times a function invokes its function parameter in place.\n *\n * See [ContractBuilder.callsInPlace] for the details of the call-in-place function contract.\n */\n@ContractsDsl\n@ExperimentalContracts\n@SinceKotlin(\"1.3\")\npublic enum class InvocationKind {\n    /**\n     * A function parameter will be invoked one time or not invoked at all.\n     */\n    // @sample samples.contracts.callsInPlaceAtMostOnceContract\n    @ContractsDsl AT_MOST_ONCE,\n\n    /**\n     * A function parameter will be invoked one or more times.\n
     *\n     */\n    // @sample samples.contracts.callsInPlaceAtLeastOnceContract\n    @ContractsDsl AT_LEAST_ONCE,\n\n    /**\n     * A function parameter will be invoked exactly one time.\n     *\n     */\n    // @sample samples.contracts.callsInPlaceExactlyOnceContract\n    @ContractsDsl EXACTLY_ONCE,\n\n    /**\n     * A function parameter is called in place, but it's unknown how many times it can be called.\n     *\n     */\n    // @sample samples.contracts.callsInPlaceUnknownContract\n    @ContractsDsl UNKNOWN\n}\n\n/**\n * Specifies the contract of a function.\n *\n * The contract description must be at the beginning of a function and have at least one effect.\n *\n * Only the top-level functions can have a contract for now.\n *\n * @param builder the lambda where the contract of a function is described with the help of the [ContractBuilder] members.\n *\n */\n/* @sample samples.contracts.returnsContract\n* @sample samples.contracts.returnsTrueContract\n* @sample samples.contracts.returnsFalseContract\n*
 @sample samples.contracts.returnsNullContract\n* @sample samples.contracts.returnsNotNullContract\n* @sample samples.contracts.callsInPlaceAtMostOnceContract\n* @sample samples.contracts.callsInPlaceAtLeastOnceContract\n* @sample samples.contracts.callsInPlaceExactlyOnceContract\n* @sample samples.contracts.callsInPlaceUnknownContract\n*/\n@ContractsDsl\n@ExperimentalContracts\n@InlineOnly\n@SinceKotlin(\"1.3\")\n@Suppress(\"UNUSED_PARAMETER\")\npublic inline fun contract(builder: ContractBuilder.() -> Unit) { }","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\n/**\n * Marks coroutine context element that
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intercepts coroutine continuations.\n * The coroutines framework uses [ContinuationInterceptor.Key] to retrieve the interceptor and\n * intercepts all coroutine
continuations with [interceptContinuation] invocations.\n */\n@SinceKotlin(\"1.3\")\npublic interface ContinuationInterceptor : CoroutineContext.Element {\n /**\n * The key that defines *the* context interceptor.\n */\n companion object Key : CoroutineContext.Key<ContinuationInterceptor>\n\n /**\n * Returns continuation that wraps the original [continuation], thus intercepting all resumptions.\n * This function is invoked by coroutines framework when needed and the resulting continuations are\n * cached internally per each instance of the original [continuation].\n *\n * This function may simply return original [continuation] if it does not want to intercept this particular continuation.\n *\n * When the original [continuation] completes, coroutine framework invokes [releaseInterceptedContinuation]\n * with the resulting continuation if it was intercepted, that is if `interceptContinuation` had previously\n * returned a different continuation
instance.\n */\n public fun <T> interceptContinuation(continuation: Continuation<T>): Continuation<T>\n\n /**\n * Invoked for the continuation instance returned by [interceptContinuation] when the original\n * continuation completes and will not be used anymore. This function is invoked only if [interceptContinuation]\n * had returned a different continuation instance from the one it was invoked with.\n *\n * Default implementation does nothing.\n *\n * @param continuation Continuation instance returned by this interceptor's [interceptContinuation] invocation.\n */\n public fun releaseInterceptedContinuation(continuation: Continuation<*>) {\n /* do nothing by default */\n }\n\n // Performance optimization for a singleton Key\n public override operator fun <E : CoroutineContext.Element> get(key: CoroutineContext.Key<E>): E? =\n @Suppress(\"UNCHECKED_CAST\")\n if (key === Key) this as E else null\n\n
// Performance optimization to a singleton Key\n public override fun minusKey(key: CoroutineContext.Key<*>): CoroutineContext =\n if (key === Key) EmptyCoroutineContext else this\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\n/**\n * Persistent context for the coroutine. It is an indexed set of [Element] instances.\n * An indexed set is a mix between a set and a map.\n * Every element in this set has a unique [Key].\n */\n@SinceKotlin(\"1.3\")\npublic interface CoroutineContext {\n /**\n * Returns the element with the given [key] from this context or `null`.\n */\n public operator fun <E : Element> get(key: Key<E>): E?\n\n /**\n * Accumulates entries of this context starting with [initial] value and applying [operation]\n * from left to right to current
accumulator value and each element of this context.\n */\n public fun <R> fold(initial: R, operation: (R, Element) -> R): R\n\n /**\n * Returns a context containing elements from this context and elements from other [context].\n * The elements from this context with the same key as in the other one are dropped.\n */\n public operator fun plus(context: CoroutineContext): CoroutineContext =\n if (context === EmptyCoroutineContext) this else // fast path -- avoid lambda creation\n context.fold(this) { acc, element ->\n val removed = acc.minusKey(element.key)\n if (removed === EmptyCoroutineContext) element else {\n // make sure interceptor is always last in the context (and thus is fast to get when present)\n val interceptor = removed[ContinuationInterceptor]\n if (interceptor == null) CombinedContext(removed, element) else {\n val left
= removed.minusKey(ContinuationInterceptor)\n if (left === EmptyCoroutineContext) CombinedContext(element, interceptor) else\n CombinedContext(CombinedContext(left, element), interceptor)\n }\n }\n }\n\n /**\n * Returns a context containing elements from this context, but without an element with\n * the specified [key].\n */\n public fun minusKey(key: Key<*>): CoroutineContext\n\n /**\n * Key for the elements of [CoroutineContext]. [E] is a type of element with this key.\n */\n public interface Key<E : Element>\n\n /**\n * An element of the [CoroutineContext]. An element of the coroutine context is a singleton context by itself.\n */\n public interface Element : CoroutineContext {\n /**\n * A key of this coroutine context element.\n */\n public val key: Key<*>\n\n public override operator fun <E : Element>

get(key: Key<E>): E? =\n @Suppress(\"UNCHECKED_CAST\")\n if (this.key == key) this as E else null\n\n public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\n operation(initial, this)\n\n public override fun minusKey(key: Key<*>): CoroutineContext =\n if (this.key == key) EmptyCoroutineContext else this\n }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.coroutines\n\nimport kotlin.coroutines.CoroutineContext.*\nimport kotlin.io.Serializable\n\n/**\n * Base class for [CoroutineContext.Element] implementations.\n */\n@SinceKotlin(\"1.3\")\npublic abstract class AbstractCoroutineContextElement(public override val key: Key<*>) : Element\n\n/**\n * An empty coroutine context.\n */\n@SinceKotlin(\"1.3\")\npublic object EmptyCoroutineContext
: CoroutineContext, Serializable {\n private const val serialVersionUID: Long = 0\n private fun readResolve(): Any = EmptyCoroutineContext\n\n public override fun <E : Element> get(key: Key<E>): E? = null\n public override fun <R> fold(initial: R, operation: (R, Element) -> R): R = initial\n public override fun plus(context: CoroutineContext): CoroutineContext = context\n public override fun minusKey(key: Key<*>): CoroutineContext = this\n public override fun hashCode(): Int = 0\n public override fun toString(): String = \"EmptyCoroutineContext\"\n}\n\n//---------- internal impl ----------\n\n// this class is not exposed, but is hidden inside implementations\n// this is a left-biased list, so that `plus` works naturally\n@SinceKotlin(\"1.3\")\ninternal class CombinedContext(\n private val left: CoroutineContext,\n private val element: Element\n) : CoroutineContext, Serializable {\n\n override fun <E : Element> get(key: Key<E>): E? {\n var cur = this\n while (true) {\n cur.element[key]?.let { return it }\n val next = cur.left\n if (next is CombinedContext) {\n cur = next\n } else {\n return next[key]\n }\n }\n }\n\n public override fun <R> fold(initial: R, operation: (R, Element) -> R): R =\n operation(left.fold(initial, operation), element)\n\n public override fun minusKey(key: Key<*>): CoroutineContext {\n element[key]?.let { return left }\n val newLeft = left.minusKey(key)\n return when {\n newLeft === left -> this\n newLeft === EmptyCoroutineContext -> element\n else -> CombinedContext(newLeft, element)\n }\n }\n\n private fun size(): Int {\n var cur = this\n var size = 2\n while (true) {\n cur = cur.left as? CombinedContext ?: return size\n size++\n }\n }\n\n private fun contains(element: Element): Boolean =\n get(element.key) == element\n\n private fun containsAll(context: CombinedContext): Boolean {\n var cur = context\n while (true) {\n if (!contains(cur.element)) return false\n val next = cur.left\n if (next is CombinedContext) {\n cur = next\n } else {\n return contains(next as Element)\n }\n }\n }\n\n override fun equals(other: Any?): Boolean =\n this === other || other is CombinedContext && other.size() == size() && other.containsAll(this)\n\n override fun hashCode(): Int = left.hashCode() + element.hashCode()\n\n override fun toString(): String =\n \"[\" + fold(\"\") { acc, element ->\n if (acc.isEmpty()) element.toString() else \"$acc, $element\"\n } + \"]\"\n\n private fun writeReplace(): Any {\n val n = size()\n val elements = arrayOfNulls<CoroutineContext>(n)\n var index = 0\n fold(Unit) { _, element -> elements[index++] = element }\n check(index == n)\n @Suppress(\"UNCHECKED_CAST\")\n return Serialized(elements as Array<CoroutineContext>)\n }\n\n private class Serialized(val elements: Array<CoroutineContext>) : Serializable {\n companion object {\n private const val serialVersionUID: Long = 0L\n }\n\n private fun readResolve(): Any = elements.fold(EmptyCoroutineContext, CoroutineContext::plus)\n }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"IntrinsicsKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage kotlin.coroutines.intrinsics\n\nimport kotlin.coroutines.*\nimport kotlin.internal.InlineOnly\n\n/**\n * Obtains the current continuation instance inside
suspend functions and either suspends\n * currently running coroutine or returns result immediately without suspension.\n *\n * If the [block] returns the special [COROUTINE_SUSPENDED] value, it means that suspend

function did suspend the execution and will\n * not return any result immediately. In this case, the [Continuation] provided to the [block] shall be\n * resumed by invoking [Continuation.resumeWith] at some moment in the\n * future when the result becomes available to resume the computation.\n *\n * Otherwise, the return value of the [block] must have a type assignable to [T] and represents the result of this suspend function.\n * It means that the execution was not suspended and the [Continuation] provided to the [block] shall not be invoked.\n * As the result type of the [block] is declared as `Any?` and cannot be correctly type-checked,\n * its proper return type remains on the conscience of the suspend function's author.\n *\n * Invocation of [Continuation.resumeWith] resumes coroutine directly in the invoker's thread without going through the\n * [ContinuationInterceptor] that might be present in the coroutine's [CoroutineContext].\n * It is the invoker's responsibility to ensure that a proper invocation context is established.\n * [Continuation.intercepted] can be used to acquire the intercepted continuation.\n *\n * Note that it is not recommended to call either [Continuation.resume] nor [Continuation.resumeWithException] functions synchronously\n * in the same stackframe where suspension function is run. Use [suspendCoroutine] as a safer way to obtain current\n * continuation instance.\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\n@Suppress(\"UNUSED_PARAMETER\", \"RedundantSuspendModifier\")\npublic suspend inline fun <T> suspendCoroutineUninterceptedOrReturn(crossinline block: (Continuation<T>) -> Any?): T =\n   throw NotImplementedError(\"Implementation of suspendCoroutineUninterceptedOrReturn is intrinsic\")\n\n/**\n * This value is used as a return value of [suspendCoroutineUninterceptedOrReturn] `block` argument to state that\n * the execution was suspended and will not return any result immediately.\n *\n * **Note: this value should not be used in general code.** Using it outside of the context of\n * `suspendCoroutineUninterceptedOrReturn` function return value (including, but not limited to,\n * storing this value in other properties, returning it from other functions, etc)\n * can lead to unspecified behavior of the code.\n */\n// It is implemented as property with getter to avoid ProGuard <clinit> problem with multifile IntrinsicsKt class\n@SinceKotlin(\"1.3\")\npublic val COROUTINE_SUSPENDED: Any get() = CoroutineSingletons.COROUTINE_SUSPENDED\n\n// Using enum here ensures two important properties:\n// 1. It makes SafeContinuation serializable with all kinds of serialization frameworks (since all of them natively support enums)\n// 2. It improves debugging experience, since you clearly see toString() value of those objects and what package they come from\n@SinceKotlin(\"1.3\")\n@PublishedApi // This class is Published API via serialized representation of SafeContinuation, don't rename/move\ninternal enum class CoroutineSingletons { COROUTINE_SUSPENDED, UNDECIDED, RESUMED }\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.experimental\n\n/** Performs a bitwise AND operation between the two values. */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.and(other: Byte): Byte = (this.toInt() and other.toInt()).toByte()\n\n/** Performs a bitwise OR operation between the two values. */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.or(other: Byte): Byte = (this.toInt() or other.toInt()).toByte()\n\n/** Performs a bitwise XOR operation between the two values. */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Byte.xor(other: Byte): Byte = (this.toInt() xor other.toInt()).toByte()\n\n/** Inverts the bits in this value. */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun Byte.inv(): Byte = (this.toInt().inv()).toByte()\n\n\n/** Performs a bitwise AND operation between the two values. */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.and(other: Short): Short = (this.toInt() and other.toInt()).toShort()\n\n/** Performs a bitwise OR operation between the two values. */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.or(other: Short): Short = (this.toInt() or other.toInt()).toShort()\n\n/** Performs a bitwise XOR operation between the two values. */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline infix fun Short.xor(other: Short): Short = (this.toInt() xor other.toInt()).toShort()\n\n/** Inverts the bits

in this value. */\n@SinceKotlin(\"1.1\")\n@kotlin.internal.InlineOnly\npublic inline fun Short.inv(): Short = (this.toInt().inv()).toShort()\n\n\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.experimental\n\n/**\n * The experimental marker for type inference augmenting annotations.\n *\n * Any usage of a declaration annotated with `@ExperimentalTypeInference` must be accepted either by\n * annotating that usage with the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalTypeInference::class)`,\n * or by using the compiler argument `-Xuse-experimental=kotlin.experimental.ExperimentalTypeInference`.\n */\n@Experimental(level = Experimental.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(AnnotationTarget.ANNOTATION_CLASS)\n@SinceKotlin(\"1.3\")\npublic annotation class ExperimentalTypeInference\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.internal\n\n/**\n * Specifies that the corresponding type should be ignored during type inference.\n */\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class NoInfer\n\n/**\n * Specifies that the constraint built for the type during type inference should be an equality one.\n */\n@Target(AnnotationTarget.TYPE)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class Exact\n\n/**\n * Specifies that a corresponding member has the lowest priority in overload resolution.\n */\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class LowPriorityInOverloadResolution\n\n/**\n * Specifies that the corresponding member has the highest priority in overload resolution. Effectively this means that\n * an extension annotated with this annotation will win in overload resolution over a member with the same signature.\n */\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class HidesMembers\n\n/**\n * The value of this type parameter should be mentioned in input types (argument types, receiver type or expected type).\n */\n@Target(AnnotationTarget.TYPE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class OnlyInputTypes\n\n/**\n * Specifies that this function should not be called directly without inlining\n */\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.PROPERTY_GETTER, AnnotationTarget.PROPERTY_SETTER)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class InlineOnly\n\n/**\n * Specifies that this declaration can have dynamic receiver type.\n */\n@Target(AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY)\n@Retention(AnnotationRetention.BINARY)\ninternal annotation class DynamicExtension\n\n/**\n * The value of this parameter should be a property reference expression (`this::foo`), referencing a `lateinit` property,\n * the backing field of which is accessible at the point where the corresponding argument is passed.\n */\n@Target(AnnotationTarget.VALUE_PARAMETER)\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.2\")\ninternal annotation class AccessibleLateinitPropertyLiteral\n\n/**\n * Specifies that this declaration is only completely supported since the specified version.\n *\n * The Kotlin compiler of an earlier version is going to report a diagnostic on usages of this declaration.\n * The diagnostic message can be specified with [message], or via [errorCode] (takes less space, but might not be immediately clear\n * to the user). The diagnostic severity can be specified with [level]: WARNING/ERROR mean that either a warning or an error\n * is going to be reported, HIDDEN means that the declaration is going to be removed from resolution completely.\n *\n * [versionKind] specifies which version should be compared with the [version] value, when compiling the usage of the annotated declaration.\n * Note that prior to 1.2, only [RequireKotlinVersionKind.LANGUAGE_VERSION] was supported, so the Kotlin compiler before 1.2 is going

to\n * treat any [RequireKotlin] as if it requires the language version. Since 1.2, the Kotlin compiler supports\n * [RequireKotlinVersionKind.LANGUAGE_VERSION], [RequireKotlinVersionKind.COMPILER_VERSION] and [RequireKotlinVersionKind.API_VERSION].\n * If the actual value of [versionKind] is something different (e.g. a new version kind, added in future versions of Kotlin),\n * Kotlin 1.2 is going to ignore this [RequireKotlin] altogether, where as Kotlin before 1.2 is going to treat this as a requirement\n * on the language version.\n *\n * This annotation is erased at compile
time; its arguments are stored in a more compact form in the Kotlin metadata.\n */\n@Target(AnnotationTarget.CLASS, AnnotationTarget.FUNCTION, AnnotationTarget.PROPERTY, AnnotationTarget.CONSTRUCTOR,
AnnotationTarget.TYPEALIAS)\n@Retention(AnnotationRetention.SOURCE)\n@Repeatable\n@SinceKotlin(\"1.2\")\ninternal annotation class RequireKotlin(\n   val version: String,\n   val message: String = \"\",\n   val level: DeprecationLevel = DeprecationLevel.ERROR,\n   val versionKind: RequireKotlinVersionKind = RequireKotlinVersionKind.LANGUAGE_VERSION,\n   val errorCode: Int = -1\n)\n\n/**\n * The kind of the version that is required by [RequireKotlin].\n */\n@SinceKotlin(\"1.2\")\ninternal enum class RequireKotlinVersionKind {\n   LANGUAGE_VERSION,\n   COMPILER_VERSION,\n   API_VERSION,\n}\n\n/**\n * Specifies that this declaration is a part of special DSL, used for constructing function's contract.\n */\n@Retention(AnnotationRetention.BINARY)\n@SinceKotlin(\"1.2\")\ninternal annotation class ContractsDsl\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Standard property delegates.\n */\npublic object Delegates {\n   /**\n   * Returns a property delegate for a read/write property with a non-`null` value that is initialized not during\n   * object construction time but at a later time. Trying to read the property before the initial value has been\n   * assigned results in an exception.\n   *\n   * @sample samples.properties.Delegates.notNullDelegate\n   */\n   public fun <T : Any> notNull(): ReadWriteProperty<Any?, T> = NotNullVar()\n\n   /**\n   * Returns a property delegate for a read/write property that calls a specified callback function when changed.\n   * @param initialValue the initial value of the property.\n   * @param onChange the callback which is called after the change of the property is made. The value of the property\n   * has already been changed when this callback is invoked.\n   *\n   * @sample samples.properties.Delegates.observableDelegate\n   */\n   public inline fun <T> observable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Unit):\n ReadWriteProperty<Any?, T> =\n   object : ObservableProperty<T>(initialValue) {\n   override fun afterChange(property: KProperty<*>, oldValue: T, newValue: T) = onChange(property, oldValue, newValue)\n   }\n\n   /**\n   * Returns a property delegate for a read/write property that calls a specified callback function when changed,\n   * allowing the callback to veto the modification.\n   * @param initialValue the initial value of the property.\n   * @param onChange the callback which is called before a change to the property value is attempted.\n   * The value of the property hasn't been changed yet, when this callback is invoked.\n   * If the callback returns `true` the value of the property is being set to the new value,\n   * and if the callback returns `false` the new value is discarded and the property remains its old value.\n   *\n   * @sample samples.properties.Delegates.vetoableDelegate\n   * @sample samples.properties.Delegates.throwVetoableDelegate\n   */\n   public inline fun <T> vetoable(initialValue: T, crossinline onChange: (property: KProperty<*>, oldValue: T, newValue: T) -> Boolean):\n ReadWriteProperty<Any?, T> =\n   object : ObservableProperty<T>(initialValue) {\n   override fun beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = onChange(property, oldValue, newValue)\n   }\n\n}\n\n\nprivate class NotNullVar<T : Any>() : ReadWriteProperty<Any?, T> {\n   private var value: T? = null\n\n   public override fun getValue(thisRef:
Any?, property: KProperty<*>): T {\n   return value ?: throw IllegalStateException(\"Property ${property.name} should be initialized before get.\")\n   }\n\n   public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {\n   this.value = value\n   }\n}\n\n","/*\n * Copyright 2010-2018 JetBrains

s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.properties\n\nimport kotlin.reflect.KProperty\n\n/**\n * Implements the core logic of a property delegate for a read/write property that calls callback functions when changed.\n * @param initialValue the initial value of the property.\n */\npublic abstract class ObservableProperty<T>(initialValue: T) : ReadWriteProperty<Any?, T> {\n   private var value = initialValue\n\n   /**\n   * The callback which is called before a change to the property value is attempted.\n   * The value of the property hasn't been changed yet, when this callback is invoked.\n   * If the callback returns `true` the value of the property is being set to the new value,\n   * and if the callback returns `false` the new value is discarded and the property remains its old value.\n   */\n   protected open fun beforeChange(property: KProperty<*>, oldValue: T, newValue: T): Boolean = true\n\n   /**\n   * The callback which is called after the change of the property is made. The value of the property\n   * has already been changed when this callback is invoked.\n   */\n   protected open fun afterChange(property: KProperty<*>, oldValue: T, newValue: T): Unit {}\n\n   public override fun getValue(thisRef: Any?, property: KProperty<*>): T {\n   return value\n   }\n\n   public override fun setValue(thisRef: Any?, property: KProperty<*>, value: T) {\n   val oldValue = this.value\n   if (!beforeChange(property, oldValue, value)) {\n   return\n   }\n   this.value = value\n   afterChange(property, oldValue, value)\n   }\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\nimport kotlin.math.nextDown\n\n/**\n * An abstract class that is implemented by random number generator algorithms.\n *\n * The companion object [Random.Default] is the default instance of [Random].\n *\n * To get a seeded instance of random generator use [Random] function.\n *\n * @sample samples.random.Randoms.defaultRandom\n */\n@SinceKotlin(\"1.3\")\npublic abstract class Random {\n\n   /**\n   * Gets the next random [bitCount] number of bits.\n   *\n   * Generates an `Int` whose lower [bitCount] bits are filled with random values and the remaining upper bits are zero.\n   *\n   * @param bitCount number of bits to generate, must be in range 0..32, otherwise the behavior is unspecified.\n   */\n   public abstract fun nextBits(bitCount: Int): Int\n\n   /**\n   * Gets the next random `Int` from the random number generator.\n   *\n   * Generates an `Int` random value uniformly distributed between `Int.MIN_VALUE` and `Int.MAX_VALUE` (inclusive).\n   */\n   public open fun nextInt(): Int = nextBits(32)\n\n   /**\n   * Gets the next random non-negative `Int` from the random number generator less than the specified [until] bound.\n   *\n   * Generates an `Int` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n   *\n   * @param until must be positive.\n   *\n   * @throws IllegalArgumentException if [until] is negative or zero.\n   */\n   public open fun nextInt(until: Int): Int = nextInt(0, until)\n\n   /**\n   * Gets the next random `Int` from the random number generator in the specified range.\n   *\n   * Generates an `Int` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n   *\n   * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n   */\n   public open fun nextInt(from: Int, until: Int): Int {\n   checkRangeBounds(from, until)\n   val n = until - from\n   if (n > 0 || n == Int.MIN_VALUE) {\n   val rnd = if (n and -n == n) {\n   val bitCount = fastLog2(n)\n   nextBits(bitCount)\n   } else {\n   var v: Int\n   do {\n   val bits = nextInt().ushr(1)\n   v = bits % n\n   } while (bits - v + (n - 1) < 0)\n   v\n   }\n   return from + rnd\n   } else {\n   while (true) {\n   val rnd = nextInt()\n   if (rnd in from until until) return rnd\n   }\n   }\n   }\n\n   /**\n   * Gets the next random `Long` from the random number generator.\n   *\n   * Generates a `Long` random value uniformly distributed between `Long.MIN_VALUE` and `Long.MAX_VALUE` (inclusive).\n   */\n   public open fun nextLong(): Long = nextInt().toLong().shl(32) + nextInt()\n\n   /**\n   * Gets the next random non-negative `Long` from the random number generator less than the specified [until] bound.\n   *\n   * Generates a `Long` random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n   *\n   * @param until must be positive.\n   *\n   * @throws IllegalArgumentException if [until] is negative or zero.\n   */\n   public open fun nextLong(until: Long): Long = nextLong(0, until)\n\n   /**\n   * Gets the next random `Long` from the random

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number generator in the specified range.\n     *\n     * Generates a `Long` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n     *\n     * @throws IllegalArgumentException
 if [from] is greater than or equal to [until].\n     */\n    public open fun nextLong(from: Long, until: Long): Long {\n        checkRangeBounds(from, until)\n        val n = until - from\n        if (n > 0) {\n            val rnd: Long\n            if (n and -n == n) {\n                val nLow = n.toInt()\n                val nHigh = (n ushr 32).toInt()\n                rnd = when {\n                    nLow != 0 -> {\n                        val bitCount = fastLog2(nLow)\n                        // toUInt().toLong()\n                        nextBits(bitCount).toLong() and 0xFFFF_FFFF\n                    }\n                    nHigh == 1 ->\n                        // toUInt().toLong()\n                        nextInt().toLong() and 0xFFFF_FFFF\n                    else -> {\n                        val bitCount = fastLog2(nHigh)\n                        nextBits(bitCount).toLong().shl(32) + nextInt()\n                    }\n                }\n            } else {\n                var v: Long\n                do {\n                    val bits = nextLong().ushr(1)\n                    v = bits % n\n                } while (bits - v + (n - 1) < 0)\n                rnd = v\n            }\n            return from + rnd\n        } else {\n            while (true) {\n                val rnd = nextLong()\n                if (rnd in from until until) return rnd\n            }\n        }\n    }\n\n    /**\n     * Gets the next random [Boolean] value.\n     */\n    public open fun nextBoolean(): Boolean = nextBits(1) != 0\n\n    /**\n     * Gets the next random [Double] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n     */\n    public open fun nextDouble(): Double = doubleFromParts(nextBits(26), nextBits(27))\n\n    /**\n     * Gets the next random non-negative `Double` from the random number generator less than the specified [until] bound.\n     *\n     * Generates a `Double` random value uniformly distributed between 0 (inclusive) and [until] (exclusive).\n     *\n     * @throws IllegalArgumentException if [until] is negative or zero.\n     */\n    public open fun nextDouble(until: Double): Double = nextDouble(0.0, until)\n\n    /**\n     * Gets the next random `Double` from the random number generator in the specified range.\n     *\n     * Generates a `Double` random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n     *\n     * [from] and [until] must be finite otherwise the behavior is unspecified.\n     *\n     * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n     */\n    public open fun nextDouble(from: Double, until: Double): Double {\n        checkRangeBounds(from, until)\n        val size = until - from\n        val r = if (size.isInfinite() && from.isFinite() && until.isFinite()) {\n            val r1 = nextDouble() * (until / 2 - from / 2)\n            from + r1 + r1\n        } else {\n            from + nextDouble()
 * size\n        }\n        return if (r >= until) until.nextDown() else r\n    }\n\n    /**\n     * Gets the next random [Float] value uniformly distributed between 0 (inclusive) and 1 (exclusive).\n     */\n    public open fun nextFloat(): Float = nextBits(24) / (1 shl 24).toFloat()\n\n    /**\n     * Fills a subrange of the specified byte [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive\n     * with random bytes.\n     *\n     * @return [array] with the subrange filled with random bytes.\n     */\n    public open fun nextBytes(array: ByteArray, fromIndex: Int = 0, toIndex: Int = array.size): ByteArray {\n        require(fromIndex in 0..array.size && toIndex in 0..array.size) { \"fromIndex ($fromIndex) or toIndex ($toIndex) are out of range: 0..${array.size}.\" }\n        require(fromIndex <= toIndex) { \"fromIndex ($fromIndex) must be not greater than toIndex ($toIndex).\" }\n\n        val steps = (toIndex - fromIndex) / 4\n\n        var position = fromIndex\n        repeat(steps) {\n            val v = nextInt()\n            array[position] = v.toByte()\n            array[position + 1] = v.ushr(8).toByte()\n            array[position + 2] = v.ushr(16).toByte()\n            array[position + 3] = v.ushr(24).toByte()\n            position += 4\n        }\n\n        val remainder = toIndex - position\n        val vr = nextBits(remainder * 8)\n        for (i in 0 until remainder) {\n            array[position + i] = vr.ushr(i * 8).toByte()\n        }\n\n        return array\n    }\n\n    /**\n     * Fills the specified byte [array] with random bytes and returns it.\n     *\n     * @return [array] filled with random bytes.\n     */\n    public open fun nextBytes(array: ByteArray): ByteArray = nextBytes(array, 0, array.size)\n\n    /**\n     * Creates a byte array of the specified [size], filled with random bytes.\n     */\n    public open fun nextBytes(size: Int): ByteArray = nextBytes(ByteArray(size))\n\n\n    /**\n     * The default random number
 generator.\n     *\n     * On JVM this generator is thread-safe, its methods can be invoked from multiple threads.\n     *\n     * @sample samples.random.Randoms.defaultRandom\n     */\n    companion object Default : Random() {\n\n
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    private val defaultRandom: Random = defaultPlatformRandom()\n\n        override fun nextBits(bitCount: Int): Int = defaultRandom.nextBits(bitCount)\n        override fun nextInt(): Int = defaultRandom.nextInt()\n        override fun nextInt(until: Int): Int = defaultRandom.nextInt(until)\n        override fun nextInt(from: Int, until: Int): Int = defaultRandom.nextInt(from, until)\n\n        override fun nextLong(): Long = defaultRandom.nextLong()\n        override fun nextLong(until: Long): Long = defaultRandom.nextLong(until)\n        override fun nextLong(from: Long, until: Long): Long = defaultRandom.nextLong(from, until)\n\n        override fun nextBoolean(): Boolean = defaultRandom.nextBoolean()\n\n        override fun nextDouble(): Double = defaultRandom.nextDouble()\n        override fun nextDouble(until: Double): Double = defaultRandom.nextDouble(until)\n        override fun nextDouble(from: Double, until: Double): Double = defaultRandom.nextDouble(from, until)\n\n        override fun nextFloat(): Float = defaultRandom.nextFloat()\n\n        override fun nextBytes(array: ByteArray): ByteArray = defaultRandom.nextBytes(array)\n        override fun nextBytes(size: Int): ByteArray = defaultRandom.nextBytes(size)\n        override fun nextBytes(array: ByteArray, fromIndex: Int, toIndex: Int): ByteArray = defaultRandom.nextBytes(array, fromIndex, toIndex)\n\n        @Deprecated(\"Use Default companion object instead\", level = DeprecationLevel.HIDDEN)\n        @Suppress(\"DEPRECATION_ERROR\")\n        @kotlin.jvm.JvmField\n        public val Companion: Random.Companion = Random.Companion\n    }\n\n    @Deprecated(\"Use Default companion object instead\", level = DeprecationLevel.HIDDEN)\n    public object Companion : Random() {\n        override fun nextBits(bitCount: Int): Int = Default.nextBits(bitCount)\n    }\n}\n\n/**\n * Returns a repeatable random number generator seeded with the given [seed] `Int` value.\n *\n * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.\n *\n * *Note:* Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return\n * a sequence of values different from the current one for a given seed.\n *\n * @sample samples.random.Randoms.seededRandom\n */\n@SinceKotlin(\"1.3\")\npublic fun Random(seed: Int): Random = XorWowRandom(seed, seed.shr(31))\n\n/**\n * Returns a repeatable random number generator seeded with the given [seed] `Long` value.\n *\n * Two generators with the same seed produce the same sequence of values within the same version of Kotlin runtime.\n *\n * *Note:* Future versions of Kotlin may change the algorithm of this seeded number generator so that it will return\n * a sequence of values different from the current one for a given seed.\n *\n * @sample samples.random.Randoms.seededRandom\n */\n@SinceKotlin(\"1.3\")\npublic fun Random(seed: Long): Random = XorWowRandom(seed.toInt(), seed.shr(32).toInt())\n\n\n\n/**\n * Gets the next random `Int` from the random number generator in the specified [range].\n *\n * Generates an `Int` random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun Random.nextInt(range: IntRange): Int = when {\n    range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\n    range.last < Int.MAX_VALUE -> nextInt(range.first, range.last + 1)\n    range.first > Int.MIN_VALUE -> nextInt(range.first - 1, range.last) + 1\n    else -> nextInt()\n}\n\n/**\n * Gets the next random `Long` from the random number generator in the specified [range].\n *\n * Generates a `Long` random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n */\n@SinceKotlin(\"1.3\")\npublic fun Random.nextLong(range: LongRange): Long = when {\n    range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\n    range.last < Long.MAX_VALUE -> nextLong(range.first, range.last + 1)\n    range.first > Long.MIN_VALUE -> nextLong(range.first - 1, range.last) + 1\n    else -> nextLong()\n}\n\n\ninternal expect fun defaultPlatformRandom(): Random\ninternal expect fun doubleFromParts(hi26: Int, low27: Int): Double\n\n@UseExperimental(ExperimentalStdlibApi::class)\ninternal fun fastLog2(value: Int): Int = 31 - value.countLeadingZeroBits()\n\n/** Takes upper [bitCount] bits (0..32) from this number. */\ninternal fun Int.takeUpperBits(bitCount: Int): Int =\n    this.ushr(32 - bitCount) and (-bitCount).shr(31)\n\ninternal fun checkRangeBounds(from: Int, until: Int) = require(until > from) { boundsErrorMessage(from, until) }\ninternal fun checkRangeBounds(from: Long, until: Long) = require(until >
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from) { boundsErrorMessage(from, until) }\ninternal fun checkRangeBounds(from: Double, until: Double) = require(until > from) { boundsErrorMessage(from, until) }\n\ninternal fun boundsErrorMessage(from: Any, until: Any) = \"Random range is empty: [$from, $until).\"\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\n\n/**\n * Gets the next random [UInt] from the random number generator.\n *\n * Generates a [UInt] random value uniformly distributed between [UInt.MIN_VALUE] and [UInt.MAX_VALUE] (inclusive).\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUInt(): UInt = nextInt().toUInt()\n\n/**\n * Gets the next random [UInt] from the random number generator less than the specified [until] bound.\n *\n * Generates a [UInt] random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @throws IllegalArgumentException if [until] is zero.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUInt(until: UInt): UInt = nextUInt(0u, until)\n\n/**\n * Gets the next random [UInt] from the random number generator in the specified range.\n *\n * Generates a [UInt] random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUInt(from: UInt, until: UInt): UInt {\n   checkUIntRangeBounds(from, until)\n\n   val signedFrom = from.toInt() xor Int.MIN_VALUE\n   val signedUntil = until.toInt() xor Int.MIN_VALUE\n\n   val signedResult = nextInt(signedFrom, signedUntil) xor Int.MIN_VALUE\n   return signedResult.toUInt()\n}\n\n/**\n * Gets the next random [UInt] from the random number generator in the specified [range].\n *\n * Generates a [UInt] random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUInt(range: UIntRange): UInt = when {\n   range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\n   range.last < UInt.MAX_VALUE -> nextUInt(range.first, range.last + 1u)\n   range.first > UInt.MIN_VALUE -> nextUInt(range.first - 1u, range.last) + 1u\n   else -> nextUInt()\n}\n\n/**\n * Gets the next random [ULong] from the random number generator.\n *\n * Generates a [ULong] random value uniformly distributed between [ULong.MIN_VALUE] and [ULong.MAX_VALUE] (inclusive).\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextULong(): ULong = nextLong().toULong()\n\n/**\n * Gets the next random [ULong] from the random number generator less than the specified [until] bound.\n *\n * Generates a [ULong] random value uniformly distributed between `0` (inclusive) and the specified [until] bound (exclusive).\n *\n * @throws IllegalArgumentException if [until] is zero.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextULong(until: ULong): ULong = nextULong(0uL, until)\n\n/**\n * Gets the next random [ULong] from the random number generator in the specified range.\n *\n * Generates a [ULong] random value uniformly distributed between the specified [from] (inclusive) and [until] (exclusive) bounds.\n *\n * @throws IllegalArgumentException if [from] is greater than or equal to [until].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextULong(from: ULong, until: ULong): ULong {\n   checkULongRangeBounds(from, until)\n\n   val signedFrom = from.toLong() xor Long.MIN_VALUE\n   val signedUntil = until.toLong() xor Long.MIN_VALUE\n\n   val signedResult = nextLong(signedFrom, signedUntil) xor Long.MIN_VALUE\n   return signedResult.toULong()\n}\n\n/**\n * Gets the next random [ULong] from the random number generator in the specified [range].\n *\n * Generates a [ULong] random value uniformly distributed in the specified [range]:\n * from `range.start` inclusive to `range.endInclusive` inclusive.\n *\n * @throws IllegalArgumentException if [range] is empty.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextULong(range: ULongRange): ULong = when {\n   range.isEmpty() -> throw IllegalArgumentException(\"Cannot get random in empty range: $range\")\n   range.last < ULong.MAX_VALUE -> nextULong(range.first, range.last + 1u)\n   range.first > ULong.MIN_VALUE

-> nextULong(range.first - 1u, range.last) + 1u\n   else -> nextULong()\n}\n\n/**\n * Fills the specified unsigned byte [array] with random bytes and returns it.\n *\n * @return [array] filled with random bytes.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array: UByteArray): UByteArray {\n   nextBytes(array.asByteArray())\n   return array\n}\n\n/**\n * Creates an unsigned byte array of the specified [size], filled with random bytes.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(size: Int): UByteArray = nextBytes(size).asUByteArray()\n\n/**\n * Fills a subrange of the specified `UByte` [array] starting from [fromIndex] inclusive and ending [toIndex] exclusive with random UBytes.\n *\n * @return [array] with the subrange filled with random bytes.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun Random.nextUBytes(array: UByteArray, fromIndex: Int = 0, toIndex: Int = array.size): UByteArray {\n   nextBytes(array.asByteArray(), fromIndex, toIndex)\n   return array\n}\n\n\n@ExperimentalUnsignedTypes\ninternal fun checkUIntRangeBounds(from: UInt, until: UInt) = require(until > from) { boundsErrorMessage(from, until) }\n@ExperimentalUnsignedTypes\ninternal fun checkULongRangeBounds(from: ULong, until: ULong) = require(until > from) { boundsErrorMessage(from, until) }\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.random\n\n/**\n * Random number generator, algorithm \"xorwow\" from p. 5 of Marsaglia, \"Xorshift RNGs\".\n *\n * Cycles after 2^160 * (2^32-1) repetitions.\n *\n * See http://www.jstatsoft.org/v08/i14/paper for details.\n */\ninternal class XorWowRandom\ninternal constructor(\n   private var x: Int,\n   private var y: Int,\n   private var z: Int,\n   private var w: Int,\n   private var v: Int,\n   private var addend: Int\n) : Random() {\n\n   internal constructor(seed1: Int, seed2: Int) :\n   this(seed1, seed2, 0, 0, seed1.inv(), (seed1 shl 10) xor (seed2 ushr 4))\n\n   init {\n   require((x or y or z or w or v) != 0) { \"Initial state must have at least one non-zero element.\" }\n\n   // some trivial seeds can produce several values with zeroes in upper bits, so we discard first 64\n   repeat(64) { nextInt() }\n   }\n\n   override fun nextInt(): Int {\n   var t = x\n   t = t xor (t ushr 2)\n   x = y\n   y = z\n   z = w\n   val v0 = v\n   w = v0\n   t = (t xor (t shl 1)) xor v0 xor (v0 shl 4)\n   v = t\n   addend += 362437\n   return t + addend\n   }\n\n   override fun nextBits(bitCount: Int): Int =\n   nextInt().takeUpperBits(bitCount)\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"RangesKt\")\n\npackage kotlin.ranges\n\n/**\n * Represents a range of floating point numbers.\n * Extends [ClosedRange] interface providing custom operation [lessThanOrEquals] for comparing values of range domain type.\n *\n * This interface is implemented by floating point ranges returned by [Float.rangeTo] and [Double.rangeTo] operators to\n * achieve IEEE-754 comparison order instead of total order of floating point numbers.\n */\n@SinceKotlin(\"1.1\")\npublic interface ClosedFloatingPointRange<T : Comparable<T>> : ClosedRange<T> {\n   override fun contains(value: T): Boolean = lessThanOrEquals(start, value) && lessThanOrEquals(value, endInclusive)\n   override fun isEmpty(): Boolean = !lessThanOrEquals(start, endInclusive)\n\n   /**\n   * Compares two values of range domain type and returns true if first is less than or equal to second.\n   */\n   fun lessThanOrEquals(a: T, b: T): Boolean\n}\n\n/**\n * Represents a range of [Comparable] values.\n */\nprivate open class ComparableRange<T : Comparable<T>>(\n   override val start: T,\n   override val endInclusive: T\n) : ClosedRange<T> {\n\n   override fun equals(other: Any?): Boolean {\n   return other is ComparableRange<*> && (isEmpty() && other.isEmpty() ||\n   start == other.start &&\n   endInclusive == other.endInclusive)\n   }\n\n   override fun hashCode(): Int {\n   return if (isEmpty()) -1 else 31 * start.hashCode() + endInclusive.hashCode()\n   }\n\n   override fun toString(): String = \"$start..$endInclusive\"\n}\n\n/**\n * A closed range of values of type `Double`.\n *\n * Numbers are compared with the ends of this range according to IEEE-754.\n */\nprivate class ClosedDoubleRange(\n   start: Double,\n   endInclusive: Double\n) : ClosedFloatingPointRange<Double> {\n   private val _start = start\n   private

val _endInclusive = endInclusive\n   override val start: Double get() = _start\n   override val endInclusive: Double get() = _endInclusive\n\n   override fun lessThanOrEquals(a: Double, b: Double): Boolean = a <= b\n\n   override fun contains(value: Double): Boolean = value >= _start && value <= _endInclusive\n   override fun isEmpty(): Boolean = !(_start <= _endInclusive)\n\n   override fun equals(other: Any?): Boolean {\n   return other is ClosedDoubleRange && (isEmpty() && other.isEmpty() ||\n   _start == other._start && _endInclusive == other._endInclusive)\n   }\n\n   override fun hashCode(): Int {\n   return if (isEmpty()) -1 else 31 * _start.hashCode() + _endInclusive.hashCode()\n   }\n\n   override fun toString(): String = \"$_start..$_endInclusive\"\n}\n\n\n/**\n * Creates a range from this [Comparable] value to the specified [that] value.\n *\n * This value needs to be smaller than [that] value, otherwise the returned range will be empty.\n * @sample samples.ranges.Ranges.rangeFromComparable\n */\npublic operator fun <T : Comparable<T>> T.rangeTo(that: T): ClosedRange<T> = ComparableRange(this, that)\n\n/**\n * Creates a range from this [Double] value to the specified [that] value.\n *\n * Numbers are compared with the ends of this range according to IEEE-754.\n * @sample samples.ranges.Ranges.rangeFromDouble\n */\n@SinceKotlin(\"1.1\")\npublic operator fun Double.rangeTo(that: Double): ClosedFloatingPointRange<Double> = ClosedDoubleRange(this, that)\n\n\n/**\n * Returns `true` if this iterable range contains the specified [element].\n *\n * Always returns `false` if the [element] is `null`.\n */\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\npublic inline operator fun <T, R> R.contains(element: T?): Boolean where T : Any, R : Iterable<T>, R : ClosedRange<T> =\n   element != null && contains(element)\n\n\ninternal fun checkStepIsPositive(isPositive: Boolean, step: Number) {\n   if (!isPositive) throw IllegalArgumentException(\"Step must be positive, was: $step.\")\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.reflect\n\n/**\n * Returns a runtime representation of the given reified type [T] as an instance of [KType].\n */\n@Suppress(\"unused\") // KT-12448\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic inline fun <reified T> typeOf(): KType =\n   throw UnsupportedOperationException(\"This function is implemented as an intrinsic on all supported platforms.\")\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"CharsKt\")\n\npackage kotlin.text\n\n/**\n * Concatenates this Char and a String.\n *\n * @sample samples.text.Chars.plus\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun Char.plus(other: String): String = this.toString() + other\n\n/**\n * Returns `true` if this character is equal to the [other] character, optionally ignoring character case.\n *\n * @param ignoreCase `true` to ignore character case when comparing characters. By default `false`.\n *\n * Two characters are considered the same ignoring case if at least one of the following is `true`:\n *   - The two characters are the same (as compared by the == operator)\n *   - Applying the method [toUpperCase] to each character produces the same result\n *   - Applying the method [toLowerCase] to each character produces the same result\n *\n * @sample samples.text.Chars.equals\n */\npublic fun Char.equals(other: Char, ignoreCase: Boolean = false): Boolean {\n   if (this == other) return true\n   if (!ignoreCase) return false\n\n   if (this.toUpperCase() == other.toUpperCase()) return true\n   if (this.toLowerCase() == other.toLowerCase()) return true\n   return false\n}\n\n/**\n * Returns `true` if this character is a Unicode surrogate code unit.\n */\npublic fun Char.isSurrogate(): Boolean = this in Char.MIN_SURROGATE..Char.MAX_SURROGATE\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"StringsKt\")\n\npackage kotlin.text\n\n/**\n * Trims leading whitespace characters followed by [marginPrefix] from every line of a source string and removes\n * the first and the last lines if they are blank (notice difference blank vs empty).\n *\n * Doesn't affect a line if it doesn't contain [marginPrefix] except the first and the last blank lines.\n *\n * Doesn't preserve the original line endings.\n *\n * @param marginPrefix non-blank string, which

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is used as a margin delimiter. Default is `|` (pipe character).\n *\n * @sample samples.text.Strings.trimMargin\n * @see trimIndent\n * @see kotlin.text.isWhitespace\n */\npublic fun String.trimMargin(marginPrefix: String = \"|\"): String =\n    replaceIndentByMargin(\"\", marginPrefix)\n\n/**\n * Detects indent by [marginPrefix] as it does [trimMargin] and replace it with [newIndent].\n *\n * @param marginPrefix non-blank string, which is used as a margin delimiter. Default is `|` (pipe character).\n */\npublic fun String.replaceIndentByMargin(newIndent: String = \"\", marginPrefix: String = \"|\"): String {\n    require(marginPrefix.isNotBlank()) { \"marginPrefix must be non-blank string.\" }\n    val lines = lines()\n\n    return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line ->\n        val firstNonWhitespaceIndex = line.indexOfFirst { !it.isWhitespace() }\n\n        when {\n            firstNonWhitespaceIndex == -1 -> null\n            line.startsWith(marginPrefix, firstNonWhitespaceIndex) -> line.substring(firstNonWhitespaceIndex + marginPrefix.length)\n            else -> null\n        }\n    })\n}\n\n/**\n * Detects a common minimal indent of all the input lines, removes it from every line and also removes the first and the last\n * lines if they are blank (notice difference blank vs empty).\n *\n * Note that blank lines do not affect the detected indent level.\n *\n * In case if there are non-blank lines with no leading whitespace characters (no indent at all) then the\n * common indent is 0, and therefore this function doesn't change the indentation.\n *\n * Doesn't preserve the original line endings.\n *\n * @sample samples.text.Strings.trimIndent\n * @see trimMargin\n * @see kotlin.text.isBlank\n */\npublic fun String.trimIndent(): String = replaceIndent(\"\")\n\n/**\n * Detects a common minimal indent like it does [trimIndent] and replaces it with the specified [newIndent].\n */\npublic fun String.replaceIndent(newIndent: String = \"\"): String {\n    val lines = lines()\n\n    val minCommonIndent = lines\n        .filter(String::isNotBlank)\n        .map(String::indentWidth)\n        .min() ?: 0\n\n    return lines.reindent(length + newIndent.length * lines.size, getIndentFunction(newIndent), { line -> line.drop(minCommonIndent) })\n}\n\n/**\n * Prepends [indent] to every line of the original string.\n *\n * Doesn't preserve the original line endings.\n */\npublic fun String.prependIndent(indent: String = \"    \"): String =\n    lineSequence()\n        .map {\n            when {\n                it.isBlank() -> {\n                    when {\n                        it.length < indent.length -> indent\n                        else -> it\n                    }\n                }\n                else -> indent + it\n            }\n        }\n        .joinToString(\"\\n\")\n\nprivate fun String.indentWidth(): Int = indexOfFirst { !it.isWhitespace() }.let { if (it == -1) length else it }\n\nprivate fun getIndentFunction(indent: String) = when {\n    indent.isEmpty() -> { line: String -> line }\n    else -> { line: String -> indent + line }\n}\n\nprivate inline fun List<String>.reindent(\n    resultSizeEstimate: Int,\n    indentAddFunction: (String) -> String,\n    indentCutFunction: (String) -> String?\n): String {\n    val lastIndex = lastIndex\n    return mapIndexedNotNull { index, value ->\n        if ((index == 0 || index == lastIndex) && value.isBlank())\n            null\n        else\n            indentCutFunction(value)?.let(indentAddFunction) ?: value\n    }\n        .joinTo(StringBuilder(resultSizeEstimate), \"\\n\")\n        .toString()\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Defines names for Unicode symbols used in proper Typography.\n */\npublic object
 Typography {\n    /** The character &#x22; \u2013 quotation mark */\n    public const val quote: Char = '\\u0022'\n
 /** The character &#x24; \u2013 dollar sign */\n    public const val dollar: Char = '\\u0024'\n    /** The character &#x26; \u2013 ampersand */\n    public const val amp: Char = '\\u0026'\n    /** The character &#x3C; \u2013 less-than sign */\n    public const val less: Char = '\\u003C'\n    /** The character &#x3E; \u2013 greater-than sign */\n    public const val greater: Char = '\\u003E'\n    /** The non-breaking space character */\n    public const val nbsp: Char = '\\u00A0'\n    /** The character &#xD7; */\n    public const val times: Char = '\\u00D7'\n    /** The character &#xA2; */\n    public const val cent: Char = '\\u00A2'\n    /** The character &#xA3; */\n    public const val pound: Char = '\\u00A3'\n    /** The character &#xA7; */\n    public const val section: Char = '\\u00A7'\n    /** The character &#xA9; */\n    public const val copyright: Char = '\\u00A9'\n
    /** The character &#xAB; */\n    public const val leftGuillemete: Char = '\\u00AB'\n    /** The character &#xBB; */\n    public const val rightGuillemete: Char = '\\u00BB'\n    /** The character &#xAE; */\n    public const val registered: Char = '\\u00AE'\n    /** The character &#xB0; */\n    public const val degree: Char = '\\u00B0'\n    /** The character &#xB1; */\n    public const val plusMinus: Char = '\\u00B1'\n    /** The character &#xB6; */\n
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public const val paragraph: Char = '\\u00B6'\n   /** The character · */\n   public const val middleDot: Char = '\\u00B7'\n   /** The character ½ */\n   public const val half: Char = '\\u00BD'\n   /** The character – */\n   public const val ndash: Char = '\\u2013'\n   /** The character — */\n   public const val mdash: Char = '\\u2014'\n   /** The character ‘ */\n   public const val leftSingleQuote: Char = '\\u2018'\n   /** The character ’ */\n   public const val rightSingleQuote: Char = '\\u2019'\n   /** The character ‚ */\n   public const val lowSingleQuote: Char = '\\u201A'\n   /** The character “ */\n   public const val leftDoubleQuote: Char = '\\u201C'\n   /** The character ” */\n   public const val rightDoubleQuote: Char = '\\u201D'\n   /** The character „ */\n   public const val lowDoubleQuote: Char = '\\u201E'\n   /** The character † */\n   public const val dagger: Char = '\\u2020'\n   /** The character ‡ */\n   public const val doubleDagger: Char = '\\u2021'\n   /** The character • */\n   public const val bullet: Char = '\\u2022'\n   /** The character … */\n   public const val ellipsis: Char = '\\u2026'\n   /** The character ′ */\n   public const val prime: Char = '\\u2032'\n   /** The character ″ */\n   public const val doublePrime: Char = '\\u2033'\n   /** The character € */\n   public const val euro: Char = '\\u20AC'\n   /** The character ™ */\n   public const val tm: Char = '\\u2122'\n   /** The character ≈ */\n   public const val almostEqual: Char = '\\u2248'\n   /** The character ≠ */\n   public const val notEqual: Char = '\\u2260'\n   /** The character ≤ */\n   public const val lessOrEqual: Char = '\\u2264'\n   /** The character ≥ */\n   public const val greaterOrEqual: Char = '\\u2265'\n}","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.text\n\n/**\n * Represents a collection of captured groups in a single match of a regular expression.\n *\n * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\n * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\n *\n * An element of the collection at the particular index can be `null`,\n * if the corresponding group in the regular expression is optional and\n * there was no match captured by that group.\n */\npublic interface MatchGroupCollection : Collection<MatchGroup?> {\n\n   /** Returns a group with the specified [index].\n   *\n   * @return An instance of [MatchGroup] if the group with the specified [index] was matched or `null` otherwise.\n   *\n   * Groups are indexed from 1 to the count of groups in the regular expression. A group with the index 0\n   * corresponds to the entire match.\n   */\n   public operator fun get(index: Int): MatchGroup?\n}\n\n/**\n * Extends [MatchGroupCollection] by introducing a way to get matched groups by name, when regex supports it.\n */\n@SinceKotlin(\"1.1\")\npublic interface MatchNamedGroupCollection : MatchGroupCollection {\n   /**\n   * Returns a named group with the specified [name].\n   * @return An instance of [MatchGroup] if the group with the specified [name] was matched or `null` otherwise.\n   * @throws IllegalArgumentException if there is no group with the specified [name] defined in the regex pattern.\n   * @throws UnsupportedOperationException if getting named groups isn't supported on the current platform.\n   */\n   public operator fun get(name: String): MatchGroup?\n}\n\n/**\n * Represents the results from a single regular expression match.\n */\npublic interface MatchResult {\n   /** The range of indices in the original string where match was captured. */\n   public val range: IntRange\n   /** The substring from the input string captured by this match. */\n   public val value: String\n   /**\n   * A collection of groups matched by the regular expression.\n   *\n   * This collection has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\n   * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\n   */\n   public val groups: MatchGroupCollection\n   /**\n   * A list of matched indexed group values.\n   *\n   * This list has size of `groupCount + 1` where `groupCount` is the count of groups in the regular expression.\n   * Groups are indexed from 1 to `groupCount` and group with the index 0 corresponds to the entire match.\n   *\n   * If the group in the regular expression is optional and there were no match captured by that group,\n   * corresponding item in [groupValues] is an empty string.\n   *\n   * @sample samples.text.Regexps.matchDestructuringToGroupValues\n   */\n   public val groupValues: List<String>\n\n   /**\n   * An instance of [MatchResult.Destructured] wrapper providing components for destructuring assignment

of group values.\n *\n * component1 corresponds to the value of the first group, component2 \u2014 of the second, and so on.\n *\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n */\n public val destructured: Destructured
get() = Destructured(this)\n\n /** Returns a new [MatchResult] with the results for the next match, starting at the position\n * at which the last match ended (at the character after the last matched character).\n */\n public fun next(): MatchResult?\n\n /**\n * Provides components for destructuring assignment of group values.\n *\n * [component1] corresponds to the value of the first group, [component2] \u2014 of the second, and so on.\n *\n * If the group in the regular expression is optional and there were no match captured by that group,\n * corresponding component value is an empty string.\n *\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n */\n public class Destructured internal constructor(public val match: MatchResult) {\n @kotlin.internal.InlineOnly\n public operator inline fun component1(): String = match.groupValues[1]\n @kotlin.internal.InlineOnly\n public operator inline fun component2(): String = match.groupValues[2]\n @kotlin.internal.InlineOnly\n public operator inline fun component3(): String = match.groupValues[3]\n @kotlin.internal.InlineOnly\n public operator inline fun component4(): String = match.groupValues[4]\n @kotlin.internal.InlineOnly\n public operator inline fun component5(): String = match.groupValues[5]\n @kotlin.internal.InlineOnly\n public operator inline fun component6(): String = match.groupValues[6]\n @kotlin.internal.InlineOnly\n public operator inline fun component7(): String = match.groupValues[7]\n @kotlin.internal.InlineOnly\n public operator inline fun component8(): String = match.groupValues[8]\n @kotlin.internal.InlineOnly\n public operator inline fun component9(): String = match.groupValues[9]\n @kotlin.internal.InlineOnly\n public operator inline fun component10(): String = match.groupValues[10]\n\n
/**\n * Returns destructured group values as a list of strings.\n * First value in the returned list corresponds to the value of the first group, and so on.\n *\n * @sample samples.text.Regexps.matchDestructuringToGroupValues\n */\n public fun toList(): List<String> = match.groupValues.subList(1, match.groupValues.size)\n }\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\n/**\n * A source of time for measuring time intervals.\n *\n * The only operation provided by the clock is [markNow]. It returns a [ClockMark], which can be used to query the elapsed time later.\n *\n * @see [measureTime]\n * @see [measureTimedValue]\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic interface Clock {\n /**\n * Marks a time point on this clock.\n
*\n * The returned [ClockMark] instance encapsulates captured time point and allows querying\n * the duration of time interval [elapsed][ClockMark.elapsedNow] from that point.\n */\n public fun markNow(): ClockMark\n}\n\n/**\n * Represents a time point notched on a particular [Clock]. Remains bound to the clock it was taken from\n * and allows querying for the duration of time elapsed from that point (see the function [elapsedNow]).\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic abstract class ClockMark {\n /**\n * Returns the amount of time passed from this clock mark on the clock from which this mark was taken.\n *\n * Note that the value returned by this function can change on subsequent invocations.\n */\n public abstract fun elapsedNow(): Duration\n\n /**\n * Returns a clock mark on the same clock that is ahead of this clock mark by the specified [duration].\n *\n * The returned clock mark is more _late_ when the [duration] is positive, and more _early_ when the [duration] is negative.\n */\n public open operator fun plus(duration: Duration): ClockMark = AdjustedClockMark(this, duration)\n\n /**\n * Returns a clock mark on the same clock that is behind this clock mark by the specified [duration].\n *\n * The returned clock mark is more _early_ when the [duration] is positive, and more _late_ when the [duration] is negative.\n */\n public open operator fun minus(duration: Duration): ClockMark = plus(-duration)\n\n\n /**\n * Returns true if this clock mark has passed according to the clock from which this mark was taken.\n *\n * Note that the value returned by this function can change on subsequent invocations.\n * If the clock is monotonic, it can change only from `false` to `true`, namely, when the clock mark becomes behind the current point of the clock.\n */\n public

fun hasPassedNow(): Boolean = !elapsedNow().isNegative()\n\n   /**\n
     * Returns false if this clock mark has not passed according to the clock from which this mark was taken.\n   *\n
     * Note that the value returned by this function can change on subsequent invocations.\n   * If the clock is monotonic, it can change only from `true` to `false`, namely, when the clock mark becomes behind the current point of the clock.\n   */\n   public fun hasNotPassedNow(): Boolean = elapsedNow().isNegative()\n}\n\n\n@ExperimentalTime\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Deprecated(\"Subtracting one ClockMark from another is not a well defined operation because these clock marks could have been obtained from the different clocks.\", level = DeprecationLevel.ERROR)\npublic inline operator fun ClockMark.minus(other: ClockMark): Duration = throw Error(\"Operation is disallowed.\")\n\n@ExperimentalTime\n@SinceKotlin(\"1.3\")\n@kotlin.internal.InlineOnly\n@Deprecated(\"Comparing one ClockMark to another is not a well defined operation because these
     clock marks could have been obtained from the different clocks.\", level = DeprecationLevel.ERROR)\npublic inline operator fun ClockMark.compareTo(other: ClockMark): Int = throw Error(\"Operation is disallowed.\")\n\n\n@ExperimentalTime\nprivate class AdjustedClockMark(val mark: ClockMark, val adjustment: Duration) : ClockMark() {\n   override fun elapsedNow(): Duration = mark.elapsedNow() - adjustment\n\n   override fun plus(duration: Duration): ClockMark = AdjustedClockMark(mark, adjustment + duration)\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\n/**\n * The most precise clock available in the platform.\n *\n * The clock returns its readings from a source of monotonic time when it is available in a target platform,\n * and resorts to a non-monotonic time source otherwise.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic
     expect object MonoClock : Clock\n\n/**\n * An abstract class used to implement clocks that return their readings as [Long] values in the specified [unit].\n *\n * @property unit The unit in which this clock readings are expressed.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic abstract class AbstractLongClock(protected val unit: DurationUnit) : Clock {\n   /**\n   * This protected method should be overridden to return the current reading of the clock expressed as a [Long] number\n   * in the unit specified by the [unit] property.\n   */\n   protected abstract fun read(): Long\n\n   private class LongClockMark(private val startedAt: Long, private val clock: AbstractLongClock, private val offset: Duration) : ClockMark() {\n   override fun elapsedNow(): Duration = (clock.read() - startedAt).toDuration(clock.unit) - offset\n   override fun plus(duration: Duration): ClockMark = LongClockMark(startedAt, clock, offset + duration)\n
    }\n\n   override fun markNow(): ClockMark = LongClockMark(read(), this, Duration.ZERO)\n}\n\n/**\n * An abstract class used to implement clocks that return their readings as [Double] values in the specified [unit].\n *\n * @property unit The unit in which this clock readings are expressed.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic abstract class AbstractDoubleClock(protected val unit: DurationUnit) : Clock {\n   /**\n   * This protected method should be overridden to return the current reading of the clock expressed as a [Double] number\n   * in the unit specified by the [unit] property.\n   */\n   protected abstract fun read(): Double\n\n   private class DoubleClockMark(private val startedAt: Double, private val clock: AbstractDoubleClock, private val offset: Duration) : ClockMark() {\n   override fun elapsedNow(): Duration = (clock.read() - startedAt).toDuration(clock.unit) - offset\n   override fun plus(duration: Duration): ClockMark = DoubleClockMark(startedAt,
     clock, offset + duration)\n   }\n\n   override fun markNow(): ClockMark = DoubleClockMark(read(), this, Duration.ZERO)\n}\n\n/**\n * A clock that has programmatically updatable readings. It is useful as a predictable source of time in tests.\n *\n * The current clock reading value can be advanced by the specified duration amount with the operator [plusAssign]:\n *\n * ```\n * val clock = TestClock()\n * clock += 10.seconds\n * ```\n *\n * Implementation note: the current clock reading value is stored as a [Long] number of nanoseconds,\n * thus it's capable to represent a time range of approximately \u00b1292 years.\n * Should the reading value overflow as the result of [plusAssign] operation, an [IllegalStateException] is thrown.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic class TestClock : AbstractLongClock(unit =

DurationUnit.NANOSECONDS) {\n   private var reading: Long = 0L\n\n   override fun read(): Long = reading\n\n   /**\n   * Advances
the current reading value of this clock by the specified [duration].\n   *\n   * [duration] value is rounded down towards zero when converting it to a [Long] number of nanoseconds.\n   * For example, if the duration being added is `0.6.nanoseconds`, the clock reading won't advance because\n   * the duration value will be rounded to zero nanoseconds.\n   *\n   * @throws IllegalStateException when the reading value overflows as the result of this operation.\n   */\n   public operator fun plusAssign(duration: Duration) {\n   val delta = duration.toDouble(unit)\n   val longDelta = delta.toLong()\n   reading = if (longDelta != Long.MIN_VALUE && longDelta != Long.MAX_VALUE) {\n   // when delta fits in long, add it as long\n   val newReading = reading + longDelta\n   if (reading xor longDelta >= 0 && reading xor newReading < 0) overflow(duration)\n   newReading\n   } else {\n   // when delta is greater than long,
add it as double\n   val newReading = reading + delta\n   if (newReading > Long.MAX_VALUE || newReading < Long.MIN_VALUE) overflow(duration)\n   newReading.toLong()\n   }\n   }\n\n   private fun overflow(duration: Duration) {\n   throw IllegalStateException(\"TestClock will overflow if its reading ${reading}ns is advanced by $duration.\")\n   }\n}\n\n/*\npublic interface WallClock {\n   fun currentTimeMilliseconds(): Long\n\n   companion object : WallClock, AbstractLongClock(unit = DurationUnit.MILLISECONDS) {\n   override fun currentTimeMilliseconds(): Long = System.currentTimeMillis()\n   override fun read(): Long = System.currentTimeMillis()\n   override fun toString(): String = \"WallClock(System.currentTimeMillis())\"\n   }\n}\n*/","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt
file.\n */\n\npackage kotlin.time\n\nimport kotlin.math.abs\n\n@UseExperimental(ExperimentalTime::class)\nprivate inline val storageUnit get() = DurationUnit.NANOSECONDS\n\n/**\n * Represents the amount of time one instant of time is away from another instant.\n *\n * A negative duration is possible in a situation when the second instant is earlier than the first one.\n * An infinite duration value [Duration.INFINITE] can be used to represent infinite timeouts.\n *\n * To construct a duration use either the extension function [toDuration],\n * or the extension properties [hours], [minutes], [seconds], and so on,\n * available on [Int], [Long], and [Double] numeric types.\n *\n * To get the value of this duration expressed in a particular [duration units][DurationUnit]\n * use the functions [toInt], [toLong], and [toDouble]\n * or the properties [inHours], [inMinutes], [inSeconds], [inNanoseconds], and so on.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@Suppress(\"NON_PUBLIC_PRIMARY_CONSTRUCTOR_OF_INLINE_CLASS\")\npublic
inline class Duration internal constructor(internal val value: Double) : Comparable<Duration> {\n// TODO: backend fails on init block, wait for KT-28055\n\n//   init {\n//   require(_value.isNaN().not())\n//   }\n\n   companion object {\n   /** The duration equal to exactly 0 seconds. */\n   public val ZERO: Duration = Duration(0.0)\n\n   /** The duration whose value is positive infinity. It is useful for representing timeouts that should never expire. */\n   public val INFINITE: Duration = Duration(Double.POSITIVE_INFINITY)\n\n   /** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit]. */\n   public fun convert(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double =\n   convertDurationUnit(value, sourceUnit, targetUnit)\n   }\n\n   // arithmetic operators\n\n   /** Returns the negative of this value. */\n
    public operator fun unaryMinus(): Duration = Duration(-value)\n\n   /** Returns a duration whose value is the sum of this and [other] duration values. */\n   public operator fun plus(other: Duration): Duration = Duration(value + other.value)\n\n   /** Returns a duration whose value is the difference between this and [other] duration values. */\n
    public operator fun minus(other: Duration): Duration = Duration(value - other.value)\n\n   /** Returns a duration whose value is this duration value multiplied by the given [scale] number. */\n   public operator fun times(scale: Int): Duration = Duration(value * scale)\n\n   /** Returns a duration whose value is this duration value multiplied by the given [scale] number. */\n   public operator fun times(scale: Double): Duration = Duration(value * scale)\n\n

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 /** Returns a duration whose value is this duration value divided by the given [scale] number. */\n    public operator fun div(scale: Int): Duration = Duration(value / scale)\n\n
    /** Returns a duration whose value is this duration value divided by the given [scale] number. */\n    public operator fun div(scale: Double): Duration = Duration(value / scale)\n\n    /** Returns a number that is the ratio of this and [other] duration values. */\n    public operator fun div(other: Duration): Double = this.value / other.value\n\n
  /** Returns true, if the duration value is less than zero. */\n    public fun isNegative(): Boolean = value < 0\n\n
/** Returns true, if the duration value is greater than zero. */\n    public fun isPositive(): Boolean = value > 0\n\n
/** Returns true, if the duration value is infinite. */\n    public fun isInfinite(): Boolean = value.isInfinite()\n\n    /** Returns true, if the duration value is finite. */\n    public fun isFinite(): Boolean = value.isFinite()\n\n    /** Returns the absolute value of this value. The returned value is always non-negative. */\n    public val absoluteValue: Duration get() = if (isNegative()) -this
 else this\n\n    override fun compareTo(other: Duration): Int = this.value.compareTo(other.value)\n\n\n    // splitting to components\n\n    /**\n     * Splits this duration into days, hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.\n     * The result of [action] is returned as the result of this function.\n     *\n     * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n     * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n     * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;\n     * - `hours` represents the whole number of hours in this duration, and its absolute value is less than 24;\n     * - `days` represents the whole number of days in this duration.\n     *    If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE]
 or less than [Int.MIN_VALUE],\n     *    it is coerced into that range.\n     */\n    public inline fun <T> toComponents(action: (days: Int, hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =\n        action(inDays.toInt(), hoursComponent, minutesComponent, secondsComponent, nanosecondsComponent)\n\n    /**\n     * Splits this duration into hours, minutes, seconds, and nanoseconds and executes the given [action] with these components.\n     * The result of [action] is returned as the result of this function.\n     *\n     * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n     * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n     * - `minutes` represents the whole number of minutes in this duration, and its absolute value is less than 60;\n     * - `hours` represents the whole number of hours in this duration.\n     *
  If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE] or less than [Int.MIN_VALUE],\n     *    it is coerced into that range.\n     */\n    public inline fun <T> toComponents(action: (hours: Int, minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =\n        action(inHours.toInt(), minutesComponent, secondsComponent, nanosecondsComponent)\n\n    /**\n     * Splits this duration into minutes, seconds, and nanoseconds and executes the given [action] with these components.\n     * The result of [action] is returned as the result of this function.\n     *\n     * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n     * - `seconds` represents the whole number of seconds in this duration, and its absolute value is less than 60;\n     * - `minutes` represents the whole number of minutes in this duration.\n     *    If the value doesn't fit in [Int] range, i.e. it's greater than [Int.MAX_VALUE]
 or less than [Int.MIN_VALUE],\n     *    it is coerced into that range.\n     */\n    public inline fun <T> toComponents(action: (minutes: Int, seconds: Int, nanoseconds: Int) -> T): T =\n        action(inMinutes.toInt(), secondsComponent, nanosecondsComponent)\n\n    /**\n     * Splits this duration into seconds, and nanoseconds and executes the given [action] with these components.\n     * The result of [action] is returned as the result of this function.\n     *\n     * - `nanoseconds` represents the whole number of nanoseconds in this duration, and its absolute value is less than 1_000_000_000;\n     * - `seconds` represents the whole number of seconds in this duration.\n     *    If the value doesn't fit in [Long] range, i.e. it's greater than [Long.MAX_VALUE] or less than [Long.MIN_VALUE],\n     *    it is coerced into that range.\n     */\n    public inline fun <T> toComponents(action: (seconds: Long, nanoseconds: Int) -> T): T =\n        action(inSeconds.toLong(), nanosecondsComponent)\n\n
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    @PublishedApi\n    internal val hoursComponent: Int get() = (inHours % 24).toInt()\n    @PublishedApi\n
internal val minutesComponent: Int get() = (inMinutes % 60).toInt()\n    @PublishedApi\n    internal val
secondsComponent: Int get() = (inSeconds % 60).toInt()\n    @PublishedApi\n    internal val
nanosecondsComponent: Int get() = (inNanoseconds % 1e9).toInt()\n\n\n    // conversion to units\n\n    /** Returns
the value of this duration expressed as a [Double] number of the specified [unit]. */\n    public fun toDouble(unit:
DurationUnit): Double = convertDurationUnit(value, storageUnit, unit)\n\n    /**\n     * Returns the value of this
duration expressed as a [Long] number of the specified [unit].\n     *\n     * If the value doesn't fit in the range of
[Long] type, it is coerced into that range, see the conversion [Double.toLong] for details.\n     */\n    public fun
toLong(unit: DurationUnit): Long = toDouble(unit).toLong()\n\n    /**\n     * Returns the value
 of this duration expressed as an [Int] number of the specified [unit].\n     *\n     * If the value doesn't fit in the range
of [Int] type, it is coerced into that range, see the conversion [Double.toInt] for details.\n     */\n    public fun
toInt(unit: DurationUnit): Int = toDouble(unit).toInt()\n\n    /** The value of this duration expressed as a [Double]
number of days. */\n    public val inDays: Double get() = toDouble(DurationUnit.DAYS)\n\n    /** The value of this
duration expressed as a [Double] number of hours. */\n    public val inHours: Double get() =
toDouble(DurationUnit.HOURS)\n\n    /** The value of this duration expressed as a [Double] number of minutes.
*/\n    public val inMinutes: Double get() = toDouble(DurationUnit.MINUTES)\n\n    /** The value of this duration
expressed as a [Double] number of seconds. */\n    public val inSeconds: Double get() =
toDouble(DurationUnit.SECONDS)\n\n    /** The value of this duration expressed as a [Double] number of
milliseconds.
 */\n    public val inMilliseconds: Double get() = toDouble(DurationUnit.MILLISECONDS)\n\n    /** The value of
this duration expressed as a [Double] number of microseconds. */\n    public val inMicroseconds: Double get() =
toDouble(DurationUnit.MICROSECONDS)\n\n    /** The value of this duration expressed as a [Double] number of
nanoseconds. */\n    public val inNanoseconds: Double get() = toDouble(DurationUnit.NANOSECONDS)\n\n    //
shortcuts\n\n    /**\n     * Returns the value of this duration expressed as a [Long] number of nanoseconds.\n     *\n
* If the value doesn't fit in the range of [Long] type, it is coerced into that range, see the conversion [Double.toLong]
for details.\n     *\n     * The range of durations that can be expressed as a `Long` number of nanoseconds is
approximately \u00b1292 years.\n     */\n    public fun toLongNanoseconds(): Long =
toLong(DurationUnit.NANOSECONDS)\n\n    /**\n     * Returns the value of this duration expressed as a [Long]
number of milliseconds.\n
     *\n     * The value is coerced to the range of [Long] type, if it doesn't fit in that range, see the conversion
[Double.toLong] for details.\n     *\n     * The range of durations that can be expressed as a `Long` number of
milliseconds is approximately \u00b1292 million years.\n     */\n    public fun toLongMilliseconds(): Long =
toLong(DurationUnit.MILLISECONDS)\n\n    /**\n     * Returns a string representation of this duration value
expressed in the unit which yields the most compact and readable number value.\n     *\n     * Special cases:\n     *  -
zero duration is formatted as `\"0s\"`\n     *  - the infinite duration is formatted as `\"Infinity\"` without unit\n     *  -
very small durations (less than 1e-15 s) are expressed in seconds and formatted in scientific notation\n     *  - very
big durations (more than 1e+7 days) are expressed in days and formatted in scientific notation\n     *\n     * @return
the value of duration in the automatically determined unit
 followed by that unit abbreviated name: `d`, `h`, `m`, `s`, `ms`, `us`, or `ns`.\n     *\n     * @sample
samples.time.Durations.toStringDefault\n     */\n    override fun toString(): String = when {\n        isInfinite() ->
value.toString()\n        value == 0.0 -> \"0s\"\n        else -> {\n            val absNs = absoluteValue.inNanoseconds\n
      var scientific = false\n            var maxDecimals = 0\n            val unit = when {\n                absNs < 1e-6 ->
DurationUnit.SECONDS.also { scientific = true }\n                absNs < 1 -> DurationUnit.NANOSECONDS.also {
maxDecimals = 7 }\n                absNs < 1e3 -> DurationUnit.NANOSECONDS\n                absNs < 1e6 ->
DurationUnit.MICROSECONDS\n                absNs < 1e9 -> DurationUnit.MILLISECONDS\n                absNs <
1000e9 -> DurationUnit.SECONDS\n                absNs < 60_000e9 -> DurationUnit.MINUTES\n                absNs <
3600_000e9 -> DurationUnit.HOURS\n                absNs < 86400e9 * 1e7 -> DurationUnit.DAYS\n
```

```
            else -> DurationUnit.DAYS.also { scientific = true }\n        }\n        val value = toDouble(unit)\n
 when {\n            scientific -> formatScientific(value)\n            maxDecimals > 0 ->
formatUpToDecimals(value, maxDecimals)\n            else -> formatToExactDecimals(value,
precision(abs(value)))\n        } + unit.shortName()\n    }\n}\n\n    private fun precision(value: Double): Int =
when {\n    value < 1 -> 3\n    value < 10 -> 2\n    value < 100 -> 1\n    else -> 0\n}\n\n    /**\n     *
Returns a string representation of this duration value expressed in the given [unit]\n     * and formatted with the
specified [decimals] number of digits after decimal point.\n     *\n     * Special cases:\n     *  - the infinite duration is
formatted as `\"Infinity\"` without unit\n     *\n     * @return the value of duration in the specified [unit] followed by
that unit abbreviated name: `d`, `h`,
 `m`, `s`, `ms`, `us`, or `ns`.\n     *\n     * @throws IllegalArgumentException if [decimals] is less than zero.\n     *\n
 * @sample samples.time.Durations.toStringDecimals\n     */\n    public fun toString(unit: DurationUnit, decimals:
Int = 0): String {\n    require(decimals >= 0) { \"decimals must be not negative, but was $decimals\" }\n    if
(isInfinite()) return value.toString()\n    val number = toDouble(unit)\n    return when {\n        abs(number) <
1e14 -> formatToExactDecimals(number, decimals.coerceAtMost(12))\n        else -> formatScientific(number)\n
    } + unit.shortName()\n}\n\n\n    /**\n     * Returns an ISO-8601 based string representation of this duration.\n
*\n     * The returned value is presented in the format `PThHmMs.fS`, where `h`, `m`, `s` are the integer components
of this duration (see [toComponents])\n     * and `f` is a fractional part of second. Depending on the roundness of the
value the fractional part can be formatted
 with either\n     * 0, 3, 6, or 9 decimal digits.\n     *\n     * If the hours component absolute value of this duration is
greater than [Int.MAX_VALUE], it is replaced with [Int.MAX_VALUE],\n     * so the infinite duration is formatted
as `\"PT2147483647H\".\n     *\n     * Negative durations are indicated with the sign `-` in the beginning of the
returned string, for example, `\"-PT5M30S\"`.\n     *\n     * @sample samples.time.Durations.toIsoString\n     */\n
public fun toIsoString(): String = buildString {\n    if (isNegative()) append('-')\n    append(\"PT\")\n
absoluteValue.toComponents { hours, minutes, seconds, nanoseconds ->\n        val hasHours = hours != 0\n
val hasSeconds = seconds != 0 || nanoseconds != 0\n        val hasMinutes = minutes != 0 || (hasSeconds &&
hasHours)\n        if (hasHours) {\n            append(hours).append('H')\n        }\n        if (hasMinutes) {\n
    append(minutes).append('M')\n
        }\n        if (hasSeconds || (!hasHours && !hasMinutes)) {\n            append(seconds)\n            if
(nanoseconds != 0) {\n                append('.')\n                val nss = nanoseconds.toString().padStart(9, '0')\n
    when {\n                    nanoseconds % 1_000_000 == 0 -> append(nss, 0, 3)\n                    nanoseconds %
1_000 == 0 -> append(nss, 0, 6)\n                    else -> append(nss)\n                }\n            }\n
append('S')\n        }\n    }\n}\n\n// constructing from number of units\n// extension functions\n\n/**
Returns a [Duration] equal to this [Int] number of the specified [unit].
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic fun Int.toDuration(unit: DurationUnit): Duration =
toDouble().toDuration(unit)\n\n/** Returns a [Duration] equal to this [Long] number of the specified [unit].
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic fun
 Long.toDuration(unit: DurationUnit): Duration = toDouble().toDuration(unit)\n\n/** Returns a [Duration] equal to
this [Double] number of the specified [unit]. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic fun
Double.toDuration(unit: DurationUnit): Duration = Duration(convertDurationUnit(this, unit, storageUnit))\n\n//
constructing from number of units\n// extension properties\n\n/** Returns a [Duration] equal to this [Int] number of
nanoseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Int.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of
nanoseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Long.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to this [Double] number of
nanoseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Double.nanoseconds get() =
toDuration(DurationUnit.NANOSECONDS)\n\n/** Returns a [Duration] equal to this
 [Int] number of microseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Int.microseconds get()
= toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of
```

microseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Long.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this [Double] number of microseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Double.microseconds get() = toDuration(DurationUnit.MICROSECONDS)\n\n/** Returns a [Duration] equal to this [Int] number of milliseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Int.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of milliseconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Long.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/** Returns a [Duration] equal to this [Double] number of milliseconds.
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Double.milliseconds get() = toDuration(DurationUnit.MILLISECONDS)\n\n/** Returns a [Duration] equal to this [Int] number of seconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Int.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/** Returns a [Duration] equal to this [Long] number of seconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Long.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/** Returns a [Duration] equal to this [Double] number of seconds. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Double.seconds get() = toDuration(DurationUnit.SECONDS)\n\n/** Returns a [Duration] equal to this [Int] number of minutes. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Int.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Long] number of minutes. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Long.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/**
Returns a [Duration] equal to this [Double] number of minutes.
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Double.minutes get() = toDuration(DurationUnit.MINUTES)\n\n/** Returns a [Duration] equal to this [Int] number of hours. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Int.hours get() = toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Long] number of hours. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Long.hours get() = toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Double] number of hours. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Double.hours get() = toDuration(DurationUnit.HOURS)\n\n/** Returns a [Duration] equal to this [Int] number of days. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Int.days get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a [Duration] equal to this [Long] number of days. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic
val Long.days get() = toDuration(DurationUnit.DAYS)\n\n/** Returns a [Duration] equal to this [Double] number of days. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic val Double.days get() = toDuration(DurationUnit.DAYS)\n\n\n/** Returns a duration whose value is the specified [duration] value multiplied by this number. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@kotlin.internal.InlineOnly\npublic inline operator fun Int.times(duration: Duration): Duration = duration * this\n\n/** Returns a duration whose value is the specified [duration] value multiplied by this number.
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\n@kotlin.internal.InlineOnly\npublic inline operator fun Double.times(duration: Duration): Duration = duration * this\n\n\ninternal expect fun formatToExactDecimals(value: Double, decimals: Int): String\ninternal expect fun formatUpToDecimals(value: Double, decimals: Int): String\ninternal expect fun formatScientific(value: Double): String","/*\n * Copyright
2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n
*/\n\n@file:kotlin.jvm.JvmMultifileClass()\n@file:kotlin.jvm.JvmName(\"DurationUnitKt\")\n\npackage kotlin.time\n\n\n/**\n * The list of possible time measurement units, in which a duration can be expressed.\n *\n * The smallest time unit is [NANOSECONDS] and the largest is [DAYS], which corresponds to exactly 24

[HOURS].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic expect enum class DurationUnit {\n /**\n * Time unit representing one nanosecond, which is 1/1000 of a microsecond.\n */\n NANOSECONDS,\n /**\n * Time unit representing one microsecond, which is 1/1000 of a millisecond.\n */\n MICROSECONDS,\n /**\n * Time unit representing one millisecond, which is 1/1000 of a second.\n */\n MILLISECONDS,\n /**\n * Time unit representing
one second.\n */\n SECONDS,\n /**\n * Time unit representing one minute.\n */\n MINUTES,\n /**\n * Time unit representing one hour.\n */\n HOURS,\n /**\n * Time unit representing one day, which is always equal to 24 hours.\n */\n DAYS;\n}\n\n/** Converts the given time duration [value] expressed in the specified [sourceUnit] into the specified [targetUnit]. */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal expect fun convertDurationUnit(value: Double, sourceUnit: DurationUnit, targetUnit: DurationUnit): Double\n\n\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\ninternal fun DurationUnit.shortName(): String = when (this) {\n DurationUnit.NANOSECONDS -> \"ns\"\n DurationUnit.MICROSECONDS -> \"us\"\n DurationUnit.MILLISECONDS -> \"ms\"\n DurationUnit.SECONDS -> \"s\"\n DurationUnit.MINUTES -> \"m\"\n DurationUnit.HOURS -> \"h\"\n DurationUnit.DAYS -> \"d\"\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.annotation.AnnotationTarget.*\n\n/**\n * This annotation marks the experimental preview of the standard library API for measuring time and working with durations.\n *\n * > Note that this API is in a preview state and has a very high chance of being changed in the future.\n * Do not use it if you develop a library since your library will become binary incompatible\n * with the future versions of the standard library.\n *\n * Any usage of a declaration annotated with `@ExperimentalTime` must be accepted either by\n * annotating that usage with the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalTime::class)`,\n * or by using the compiler argument `-Xuse-experimental=kotlin.time.ExperimentalTime`.\n */\n@Experimental(level = Experimental.Level.ERROR)\n@MustBeDocumented\n@Retention(AnnotationRetention.BINARY)\n@Target(\n CLASS,\n ANNOTATION_CLASS,\n PROPERTY,\n FIELD,\n LOCAL_VARIABLE,\n VALUE_PARAMETER,\n CONSTRUCTOR,\n FUNCTION,\n PROPERTY_GETTER,\n PROPERTY_SETTER,\n TYPEALIAS\n)\n@SinceKotlin(\"1.3\")\npublic annotation class ExperimentalTime","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.time\n\nimport kotlin.contracts.*\n\n/**\n * Executes the given function [block] and returns the duration of elapsed time interval.\n *\n * The elapsed time is measured with [MonoClock].\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun measureTime(block: () -> Unit): Duration {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n return MonoClock.measureTime(block)\n}\n\n\n/**\n * Executes the given function [block]
and returns the duration of elapsed time interval.\n *\n * The elapsed time is measured with the specified `this` [Clock] instance.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun Clock.measureTime(block: () -> Unit): Duration {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n\n val mark = markNow()\n block()\n return mark.elapsedNow()\n}\n\n\n/**\n * Data class representing a result of executing an action, along with the duration of elapsed time interval.\n *\n * @property value the result of the action.\n * @property duration the time elapsed to execute the action.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic data class TimedValue<T>(val value: T, val duration: Duration)\n\n/**\n * Executes the given function [block] and returns an instance of [TimedValue] class, containing both\n * the result of the function execution and the duration of elapsed time interval.\n *\n * The elapsed time is measured with [MonoClock].\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun <T> measureTimedValue(block: () -> T): TimedValue<T> {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n\n return MonoClock.measureTimedValue(block)\n}\n\n/**\n * Executes the given [block] and returns an instance of

[TimedValue] class, containing both\n * the result of function execution and the duration of elapsed time interval.\n *\n * The elapsed time is measured with the specified `this` [Clock] instance.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalTime\npublic inline fun <T> Clock.measureTimedValue(block: () -> T): TimedValue<T> {\n contract {\n callsInPlace(block, InvocationKind.EXACTLY_ONCE)\n }\n\n val mark = markNow()\n val result = block()\n return TimedValue(result, mark.elapsedNow())\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that
can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\n\n\n/**\n * Returns a hash code value for the object or zero if the object is `null`.\n *\n * @see Any.hashCode\n */\n@SinceKotlin(\"1.3\")\n@InlineOnly\npublic inline fun Any?.hashCode(): Int = this?.hashCode() ?: 0\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\n\n/**\n * Represents a version of the Kotlin standard library.\n *\n * [major], [minor] and [patch] are integer components of a version,\n * they must be non-negative and not greater than 255 ([MAX_COMPONENT_VALUE]).\n *\n * @constructor Creates a version from all three components.\n */\n@SinceKotlin(\"1.1\")\npublic class KotlinVersion(val major: Int, val minor: Int, val patch: Int) : Comparable<KotlinVersion> {\n /**\n * Creates
a version from [major] and [minor] components, leaving [patch] component zero.\n */\n public constructor(major: Int, minor: Int) : this(major, minor, 0)\n\n private val version = versionOf(major, minor, patch)\n\n private fun versionOf(major: Int, minor: Int, patch: Int): Int {\n require(major in 0..MAX_COMPONENT_VALUE && minor in 0..MAX_COMPONENT_VALUE && patch in 0..MAX_COMPONENT_VALUE) {\n \"Version components are out of range: $major.$minor.$patch\"\n }\n return major.shl(16) + minor.shl(8) + patch\n }\n\n /**\n * Returns the string representation of this version\n */\n override fun toString(): String = \"$major.$minor.$patch\"\n\n override fun equals(other: Any?): Boolean {\n if (this === other) return true\n val otherVersion = (other as? KotlinVersion) ?: return false\n return this.version == otherVersion.version\n }\n\n override fun hashCode(): Int = version\n\n override fun compareTo(other:
KotlinVersion): Int = version - other.version\n\n /**\n * Returns `true` if this version is not less than the version specified\n * with the provided [major] and [minor] components.\n */\n public fun isAtLeast(major: Int, minor: Int): Boolean = // this.version >= versionOf(major, minor, 0)\n this.major > major || (this.major == major &&\n this.minor >= minor)\n\n /**\n * Returns `true` if this version is not less than the version specified\n * with the provided [major], [minor] and [patch] components.\n */\n public fun isAtLeast(major: Int, minor: Int, patch: Int): Boolean = // this.version >= versionOf(major, minor, patch)\n this.major > major || (this.major == major &&\n (this.minor > minor || this.minor == minor &&\n this.patch >= patch))\n\n companion object {\n /**\n * Maximum value a version component can have, a constant value 255.\n */\n
// NOTE: Must be placed before CURRENT because its initialization requires this field being initialized in JS\n public const val MAX_COMPONENT_VALUE = 255\n\n /**\n * Returns the current version of the Kotlin standard library.\n */\n @kotlin.jvm.JvmField\n public val CURRENT: KotlinVersion = KotlinVersion(1, 3, 60) // value is written here automatically during build\n }\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"LateinitKt\")\n@file:Suppress(\"unused\")\n\npackage kotlin\n\nimport kotlin.internal.InlineOnly\nimport kotlin.internal.AccessibleLateinitPropertyLiteral\nimport kotlin.reflect.KProperty0\n\n/**\n * Returns `true` if this lateinit property has been assigned a value, and `false` otherwise.\n *\n * Cannot be used in an inline
function, to avoid binary compatibility issues.\n */\n@SinceKotlin(\"1.2\")\n@InlineOnly\ninline val @receiver:AccessibleLateinitPropertyLiteral KProperty0<*>.isInitialized: Boolean\n get() = throw

NotImplementedError(\"Implementation is intrinsic\")\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"LazyKt\")\n@file:kotlin.jvm.JvmMultifileClass\n\npackage kotlin\n\nimport kotlin.reflect.KProperty\n\n/**\n * Represents a value with lazy initialization.\n *\n * To create an instance of [Lazy] use the [lazy] function.\n */\npublic interface Lazy<out T> {\n   /**\n   * Gets the lazily initialized value of the current Lazy instance.\n   * Once the value was initialized it must not change during the rest of lifetime of this Lazy instance.\n   */\n   public val value: T\n\n   /**\n   * Returns `true` if a value for this Lazy instance has been already initialized, and `false` otherwise.\n   * Once this function has returned `true` it stays `true` for the rest of lifetime of this Lazy instance.\n   */\n   public fun isInitialized(): Boolean\n}\n\n/**\n * Creates a new instance of the [Lazy] that is already initialized with the specified [value].\n */\npublic fun <T> lazyOf(value: T): Lazy<T> = InitializedLazyImpl(value)\n\n/**\n * An extension to delegate a read-only property of type [T] to an instance of [Lazy].\n *\n * This extension allows to use instances of Lazy for property delegation:\n * `val property: String by lazy { initializer }`\n */\n@kotlin.internal.InlineOnly\npublic inline operator fun <T> Lazy<T>.getValue(thisRef: Any?, property: KProperty<*>): T = value\n\n/**\n * Specifies how a [Lazy] instance synchronizes initialization among multiple threads.\n */\npublic enum class LazyThreadSafetyMode {\n\n   /**\n   * Locks are used to ensure that only a single thread can initialize the [Lazy] instance.\n   */\n   SYNCHRONIZED,\n\n   /**\n   * Initializer function can be called several times on concurrent access to uninitialized [Lazy] instance value,\n   * but only the first returned value will be used as the value of [Lazy] instance.\n   */\n   PUBLICATION,\n\n   /**\n   * No locks are used to synchronize an access to the [Lazy] instance value; if the instance is accessed from multiple threads, its behavior is undefined.\n   *\n   * This mode should not be used unless the [Lazy] instance is guaranteed never to be initialized from more than one thread.\n   */\n   NONE,\n}\n\n\ninternal object UNINITIALIZED_VALUE\n\n// internal to be called from lazy in JS\ninternal class UnsafeLazyImpl<out T>(initializer: () -> T) : Lazy<T>, Serializable {\n   private var initializer: (() -> T)? = initializer\n   private var _value: Any? = UNINITIALIZED_VALUE\n\n   override val value: T\n   get() {\n   if (_value === UNINITIALIZED_VALUE) {\n   _value = initializer!!()\n   initializer = null\n   }\n   @Suppress(\"UNCHECKED_CAST\")\n   return _value as T\n   }\n\n   override fun isInitialized(): Boolean = _value !== UNINITIALIZED_VALUE\n\n   override fun toString(): String = if (isInitialized()) value.toString() else \"Lazy value not initialized yet.\"\n\n   private fun writeReplace(): Any = InitializedLazyImpl(value)\n}\n\ninternal class InitializedLazyImpl<out T>(override val value: T) : Lazy<T>, Serializable {\n\n   override fun isInitialized(): Boolean = true\n\n   override fun toString(): String = value.toString()\n\n}\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"NumbersKt\")\npackage kotlin\n\n/**\n * Counts the number of set bits in the binary representation of this [Int] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic expect fun Int.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Int] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic expect fun Int.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Int] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic expect fun Int.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Int] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic expect fun Int.takeHighestOneBit(): Int\n\n/**\n * Returns a number having a single bit set in the position of the least significant
set bit of this [Int] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic expect fun Int.takeLowestOneBit(): Int\n\n/**\n *

Rotates the binary representation of this [Int] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic expect fun Int.rotateLeft(bitCount: Int): Int\n\n\n/**\n * Rotates the binary representation of this [Int] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed
 out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Int.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic expect fun Int.rotateRight(bitCount: Int): Int\n\n\n/**\n * Counts the number of set bits in the binary representation of this [Long] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic expect fun Long.countOneBits(): Int\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Long] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic expect fun Long.countLeadingZeroBits(): Int\n\n/**\n * Counts the number of consecutive least
 significant bits that are zero in the binary representation of this [Long] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic expect fun Long.countTrailingZeroBits(): Int\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Long] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic expect fun Long.takeHighestOneBit(): Long\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Long] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic expect fun Long.takeLowestOneBit(): Long\n\n/**\n * Rotates the binary representation of this [Long] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative
 bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic expect fun Long.rotateLeft(bitCount: Int): Long\n\n/**\n * Rotates the binary representation of this [Long] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Long.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic
 expect fun Long.rotateRight(bitCount: Int): Long\n\n/**\n * Counts the number of set bits in the binary representation of this [Byte] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countOneBits(): Int = (toInt() and 0xFF).countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Byte] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Byte.countLeadingZeroBits(): Int = (toInt() and 0xFF).countLeadingZeroBits() - (Int.SIZE_BITS - Byte.SIZE_BITS)\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Byte] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun

Byte.countTrailingZeroBits(): Int = (toInt() or 0x100).countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Byte] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeHighestOneBit(): Byte = (toInt() and 0xFF).takeHighestOneBit().toByte()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Byte] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Byte.takeLowestOneBit(): Byte = toInt().takeLowestOneBit().toByte()\n\n\n/**\n * Rotates the binary representation of this [Byte] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 8)`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic fun Byte.rotateLeft(bitCount: Int): Byte =\n   (toInt().shl(bitCount and 7) or (toInt() and 0xFF).ushr(8 - (bitCount and 7))).toByte()\n\n/**\n * Rotates the binary representation of this [Byte] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [Byte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 8)`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic fun Byte.rotateRight(bitCount: Int): Byte =\n   (toInt().shl(8 - (bitCount and 7)) or (toInt() and 0xFF).ushr(bitCount and 7)).toByte()\n\n/**\n * Counts the number of set bits in the binary representation of this [Short] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Short.countOneBits(): Int = (toInt() and 0xFFFF).countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [Short] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Short.countLeadingZeroBits(): Int =\n   (toInt() and 0xFFFF).countLeadingZeroBits() - (Int.SIZE_BITS - Short.SIZE_BITS)\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [Short] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Short.countTrailingZeroBits(): Int = (toInt() or 0x10000).countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [Short] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Short.takeHighestOneBit(): Short = (toInt() and 0xFFFF).takeHighestOneBit().toShort()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [Short] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@kotlin.internal.InlineOnly\npublic inline fun Short.takeLowestOneBit(): Short = toInt().takeLowestOneBit().toShort()\n\n\n/**\n * Rotates the binary representation of this [Short] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic fun Short.rotateLeft(bitCount: Int): Short =\n   (toInt().shl(bitCount and 15) or (toInt() and 0xFFFF).ushr(16 - (bitCount and 15))).toShort()\n\n/**\n * Rotates the binary representation of this [Short] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a

multiple of [Short.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 16)`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\npublic fun Short.rotateRight(bitCount: Int): Short =\n   (toInt().shl(16 - (bitCount and 15)) or (toInt() and 0xFFFF).ushr(bitCount and 15)).toShort()\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\n\n@kotlin.internal.InlineOnly\n@SinceKotlin(\"1.2\")\n@Suppress(\"INVISIBLE_MEMBER\", \"INVISIBLE_REFERENCE\")\n@RequireKotlin(\"1.2.30\", level = DeprecationLevel.HIDDEN, versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic inline fun <R> suspend(noinline block: suspend () -> R): suspend () -> R = block\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"TuplesKt\")\n\npackage kotlin\n\n\n/**\n * Represents a generic pair of two values.\n *\n * There is no meaning attached to values in this class, it can be used for any purpose.\n * Pair exhibits value semantics, i.e. two pairs are equal if both components are equal.\n *\n * An example of decomposing it into values:\n * @sample samples.misc.Tuples.pairDestructuring\n *\n * @param A type of the first value.\n * @param B type of the second value.\n * @property first First value.\n * @property second Second value.\n * @constructor Creates a new instance of Pair.\n */\npublic data class Pair<out A, out B>(\n   public val first: A,\n   public val second: B\n) : Serializable {\n\n   /**\n   * Returns string representation of the [Pair] including its [first] and [second]\n   values.\n   */\n   public override fun toString(): String = \"($first, $second)\"\n}\n\n/**\n * Creates a tuple of type [Pair] from this and [that].\n *\n * This can be useful for creating [Map] literals with less noise, for example:\n * @sample samples.collections.Maps.Instantiation.mapFromPairs\n */\npublic infix fun <A, B> A.to(that: B): Pair<A, B> = Pair(this, that)\n\n/**\n * Converts this pair into a list.\n * @sample samples.misc.Tuples.pairToList\n */\npublic fun <T> Pair<T, T>.toList(): List<T> = listOf(first, second)\n\n/**\n * Represents a triad of values\n *\n * There is no meaning attached to values in this class, it can be used for any purpose.\n * Triple exhibits value semantics, i.e. two triples are equal if all three components are equal.\n * An example of decomposing it into values:\n * @sample samples.misc.Tuples.tripleDestructuring\n *\n * @param A type of the first value.\n * @param B type of the second value.\n * @param C type of the third value.\n * @property first First value.\n * @property second Second value.\n * @property third Third value.\n */\npublic data class Triple<out A, out B, out C>(\n   public val first: A,\n   public val second: B,\n   public val third: C\n) : Serializable {\n\n   /**\n   * Returns string representation of the [Triple] including its [first], [second] and [third] values.\n   */\n   public override fun toString(): String = \"($first, $second, $third)\"\n}\n\n/**\n * Converts this triple into a list.\n * @sample samples.misc.Tuples.tripleToList\n */\npublic fun <T> Triple<T, T, T>.toList(): List<T> = listOf(first, second, third)\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n\n\nimport kotlin.internal.*\n\n/**\n * A range of values of type `UInt`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic
class UIntRange(start: UInt, endInclusive: UInt) : UIntProgression(start, endInclusive, 1), ClosedRange<UInt> {\n   override val start: UInt get() = first\n   override val endInclusive: UInt get() = last\n\n   override fun contains(value: UInt): Boolean = first <= value && value <= last\n\n   override fun isEmpty(): Boolean = first > last\n\n   override fun equals(other: Any?): Boolean =\n   other is UIntRange && (isEmpty() && other.isEmpty() ||\n   first == other.first && last == other.last)\n\n   override fun hashCode(): Int =\n   if (isEmpty()) -1 else (31 * first.toInt() + last.toInt())\n\n   override fun toString(): String = \"$first..$last\"\n\n   companion object {\n   /** An empty range of values of type UInt. */\n   public val EMPTY: UIntRange = UIntRange(UInt.MAX_VALUE, UInt.MIN_VALUE)\n   }\n}\n\n/**\n * A progression of values of type `UInt`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic

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 open class UIntProgression\ninternal constructor(\n    start: UInt,\n    endInclusive: UInt,\n    step: Int\n) : Iterable<UInt> {\n    init {\n        if (step == 0.toInt()) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n        if (step == Int.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Int.MIN_VALUE to avoid overflow on negation.\")\n    }\n\n    /**\n     * The first element in the progression.\n     */\n    public val first: UInt = start\n\n    /**\n     * The last element in the progression.\n     */\n    public val last: UInt = getProgressionLastElement(start, endInclusive, step)\n\n    /**\n     * The step of the progression.\n     */\n    public val step: Int = step\n\n    override fun iterator(): UIntIterator = UIntProgressionIterator(first, last, step)\n\n    /** Checks if the progression is empty. */\n    public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n    override
 fun equals(other: Any?): Boolean =\n        other is UIntProgression && (isEmpty() && other.isEmpty() ||\n                first == other.first && last == other.last && step == other.step)\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (31 * first.toInt() + last.toInt()) + step.toInt())\n\n    override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n    companion object {\n        /**\n         * Creates UIntProgression within the specified bounds of a closed range.\n\n         * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n         * In order to go backwards the [step] must be negative.\n         *\n         * [step] must be greater than `Int.MIN_VALUE` and not equal to zero.\n         */\n        public fun fromClosedRange(rangeStart: UInt, rangeEnd: UInt, step: Int): UIntProgression = UIntProgression(rangeStart,
 rangeEnd, step)\n    }\n}\n\n\n/**\n * An iterator over a progression of values of type `UInt`.\n * @property step the number by which the value is incremented on each step.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\nprivate class UIntProgressionIterator(first: UInt, last: UInt, step: Int) : UIntIterator() {\n    private val finalElement = last\n    private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n    private val step = step.toUInt() // use 2-complement math for negative steps\n    private var next = if (hasNext) first else finalElement\n\n    override fun hasNext(): Boolean = hasNext\n\n    override fun nextUInt(): UInt {\n        val value = next\n        if (value == finalElement) {\n            if (!hasNext) throw kotlin.NoSuchElementException()\n            hasNext = false\n        } else {\n            next += step\n        }\n        return value\n    }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming
 Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.collections\n\n/** An iterator over a sequence of values of type `UByte`.
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic abstract class UByteIterator : Iterator<UByte> {\n    override final fun next() = nextUByte()\n\n    /** Returns the next value in the sequence without boxing. */\n    public abstract fun nextUByte(): UByte\n}\n\n/** An iterator over a sequence of values of type `UShort`.
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic abstract class UShortIterator : Iterator<UShort> {\n    override final fun next() = nextUShort()\n\n    /** Returns the next value in the sequence without boxing. */\n    public abstract fun nextUShort(): UShort\n}\n\n/** An iterator over a sequence of values of type `UInt`.
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic
 abstract class UIntIterator : Iterator<UInt> {\n    override final fun next() = nextUInt()\n\n    /** Returns the next value in the sequence without boxing. */\n    public abstract fun nextUInt(): UInt\n}\n\n/** An iterator over a sequence of values of type `ULong`. */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic abstract class ULongIterator : Iterator<ULong> {\n    override final fun next() = nextULong()\n\n    /** Returns the next value in the sequence without boxing. */\n    public abstract fun nextULong(): ULong\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n// Auto-generated file. DO NOT EDIT!\n\npackage kotlin.ranges\n\n\n\nimport kotlin.internal.*\n\n/**\n * A range of values of type `ULong`.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic class ULongRange(start:
 ULong, endInclusive: ULong) : ULongProgression(start, endInclusive, 1), ClosedRange<ULong> {\n    override val start: ULong get() = first\n    override val endInclusive: ULong get() = last\n\n    override fun contains(value:
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ULong): Boolean = first <= value && value <= last\n\n    override fun isEmpty(): Boolean = first > last\n\n    override fun equals(other: Any?): Boolean =\n        other is ULongRange && (isEmpty() && other.isEmpty() ||\n            first == other.first && last == other.last)\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt())\n\n    override fun toString(): String = \"$first..$last\"\n\n    companion object {\n        /** An empty range of values of type ULong. */\n        public val EMPTY: ULongRange = ULongRange(ULong.MAX_VALUE, ULong.MIN_VALUE)\n    }\n}\n\n/**\n * A progression of values of type `ULong`.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic open class ULongProgression\ninternal constructor(\n    start: ULong,\n    endInclusive: ULong,\n    step: Long\n) : Iterable<ULong> {\n    init {\n        if (step == 0.toLong()) throw kotlin.IllegalArgumentException(\"Step must be non-zero.\")\n        if (step == Long.MIN_VALUE) throw kotlin.IllegalArgumentException(\"Step must be greater than Long.MIN_VALUE to avoid overflow on negation.\")\n    }\n\n    /**\n     * The first element in the progression.\n     */\n    public val first: ULong = start\n\n    /**\n     * The last element in the progression.\n     */\n    public val last: ULong = getProgressionLastElement(start, endInclusive, step)\n\n    /**\n     * The step of the progression.\n     */\n    public val step: Long = step\n\n    override fun iterator(): ULongIterator = ULongProgressionIterator(first, last, step)\n\n    /** Checks if the progression is empty. */\n    public open fun isEmpty(): Boolean = if (step > 0) first > last else first < last\n\n    override fun equals(other: Any?): Boolean =\n        other is ULongProgression && (isEmpty() && other.isEmpty() ||\n            first == other.first && last == other.last && step == other.step)\n\n    override fun hashCode(): Int =\n        if (isEmpty()) -1 else (31 * (31 * (first xor (first shr 32)).toInt() + (last xor (last shr 32)).toInt()) + (step xor (step ushr 32)).toInt())\n\n    override fun toString(): String = if (step > 0) \"$first..$last step $step\" else \"$first downTo $last step ${-step}\"\n\n    companion object {\n        /**\n         * Creates ULongProgression within the specified bounds of a closed range.\n\n         * The progression starts with the [rangeStart] value and goes toward the [rangeEnd] value not excluding it, with the specified [step].\n         * In order to go backwards the [step] must be negative.\n         *\n         * [step] must be greater than `Long.MIN_VALUE` and not equal to zero.\n         */\n        public fun fromClosedRange(rangeStart: ULong,\n                                   rangeEnd: ULong, step: Long): ULongProgression = ULongProgression(rangeStart, rangeEnd, step)\n    }\n}\n\n/**\n * An iterator over a progression of values of type `ULong`.\n * @property step the number by which the value is incremented on each step.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\nprivate class ULongProgressionIterator(first: ULong, last: ULong, step: Long) : ULongIterator() {\n    private val finalElement = last\n    private var hasNext: Boolean = if (step > 0) first <= last else first >= last\n    private val step = step.toULong() // use 2-complement math for negative steps\n    private var next = if (hasNext) first else finalElement\n\n    override fun hasNext(): Boolean = hasNext\n\n    override fun nextULong(): ULong {\n        val value = next\n        if (value == finalElement) {\n            if (!hasNext) throw kotlin.NoSuchElementException()\n            hasNext = false\n        } else {\n            next += step\n        }\n        return value\n    }\n}\n\n","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\npackage kotlin.math\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun min(a: UInt, b: UInt): UInt {\n    return minOf(a, b)\n}\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun min(a: ULong, b: ULong): ULong {\n    return minOf(a, b)\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun max(a: UInt, b: UInt): UInt {\n    return maxOf(a, b)\n}\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun max(a: ULong, b: ULong): ULong {\n    return maxOf(a, b)\n}","/*\n * Copyright 2010-2019 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"UNumbersKt\")\npackage kotlin\n\n/**\n * Counts the number of set bits in the
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binary representation of this [UInt] number.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countOneBits(): Int = toInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UInt] number.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countLeadingZeroBits(): Int = toInt().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least
significant bits that are zero in the binary representation of this [UInt] number.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.countTrailingZeroBits(): Int = toInt().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeHighestOneBit(): UInt = toInt().takeHighestOneBit().toUInt()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [UInt] number,\n * or zero, if this number is zero.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.takeLowestOneBit(): UInt = toInt().takeLowestOneBit().toUInt()\n\n/**\n
* Rotates the binary representation of this [UInt] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 32)`\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.rotateLeft(bitCount: Int): UInt = toInt().rotateLeft(bitCount).toUInt()\n\n\n/**\n * Rotates the binary representation of this [UInt] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits
on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UInt.SIZE_BITS] (32) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 32)`\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UInt.rotateRight(bitCount: Int): UInt = toInt().rotateRight(bitCount).toUInt()\n\n\n/**\n * Counts the number of set bits in the binary representation of this [ULong] number.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULong.countOneBits(): Int = toLong().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [ULong] number.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic
inline fun ULong.countLeadingZeroBits(): Int = toLong().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [ULong] number.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULong.countTrailingZeroBits(): Int = toLong().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [ULong] number,\n * or zero, if this number is zero.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULong.takeHighestOneBit(): ULong = toLong().takeHighestOneBit().toULong()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [ULong] number,\n * or

zero, if this number
 is zero.\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULong.takeLowestOneBit(): ULong = toLong().takeLowestOneBit().toULong()\n\n/**\n * Rotates the binary representation of this [ULong] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 64)`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULong.rotateLeft(bitCount: Int): ULong = toLong().rotateLeft(bitCount).toULong()\n\n/**\n
 * Rotates the binary representation of this [ULong] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [ULong.SIZE_BITS] (64) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 64)`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun ULong.rotateRight(bitCount: Int): ULong = toLong().rotateRight(bitCount).toULong()\n\n/**\n * Counts the number of set bits in the binary representation of this [UByte] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByte.countOneBits():
 Int = toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UByte] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByte.countLeadingZeroBits(): Int = toByte().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UByte] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByte.countTrailingZeroBits(): Int = toByte().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position of the most significant set bit of this [UByte] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun
 UByte.takeHighestOneBit(): UByte = toInt().takeHighestOneBit().toUByte()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [UByte] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByte.takeLowestOneBit(): UByte = toInt().takeLowestOneBit().toUByte()\n\n/**\n * Rotates the binary representation of this [UByte] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n %
 8)`\n
*/\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByte.rotateLeft(bitCount: Int): UByte = toByte().rotateLeft(bitCount).toUByte()\n\n/**\n * Rotates the binary representation of this [UByte] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n *

`number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UByte.SIZE_BITS] (8) returns the same number, or more generally\n * `number.rotateRight(n) == number.rotateRight(n % 8)`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UByte.rotateRight(bitCount: Int): UByte = toByte().rotateRight(bitCount).toUByte()\n\n/**\n * Counts the number of set bits in the binary representation of this [UShort] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countOneBits(): Int = toUInt().countOneBits()\n\n/**\n * Counts the number of consecutive most significant bits that are zero in the binary representation of this [UShort] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countLeadingZeroBits(): Int = toShort().countLeadingZeroBits()\n\n/**\n * Counts the number of consecutive least significant bits that are zero in the binary representation of this [UShort] number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShort.countTrailingZeroBits(): Int = toShort().countTrailingZeroBits()\n\n/**\n * Returns a number having a single bit set in the position
of the most significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeHighestOneBit(): UShort = toInt().takeHighestOneBit().toUShort()\n\n/**\n * Returns a number having a single bit set in the position of the least significant set bit of this [UShort] number,\n * or zero, if this number is zero.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShort.takeLowestOneBit(): UShort = toInt().takeLowestOneBit().toUShort()\n\n\n/**\n * Rotates the binary representation of this [UShort] number left by the specified [bitCount] number of bits.\n * The most significant bits pushed out from the left side reenter the number as the least significant bits on the right side.\n *\n * Rotating the number left by a negative bit count is the same as rotating it
right by the negated bit count:\n * `number.rotateLeft(-n) == number.rotateRight(n)`\n *\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateLeft(n) == number.rotateLeft(n % 16)`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateLeft(bitCount: Int): UShort = toShort().rotateLeft(bitCount).toUShort()\n\n/**\n * Rotates the binary representation of this [UShort] number right by the specified [bitCount] number of bits.\n * The least significant bits pushed out from the right side reenter the number as the most significant bits on the left side.\n *\n * Rotating the number right by a negative bit count is the same as rotating it left by the negated bit count:\n * `number.rotateRight(-n) == number.rotateLeft(n)`\n *\n * Rotating by a multiple of [UShort.SIZE_BITS] (16) returns the same number, or more generally\n * `number.rotateRight(n)
== number.rotateRight(n % 16)`\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalStdlibApi\n@ExperimentalUnsignedTypes\n@kotlin.internal.InlineOnly\npublic inline fun UShort.rotateRight(bitCount: Int): UShort = toShort().rotateRight(bitCount).toUShort()\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:UseExperimental(ExperimentalUnsignedTypes::class)\npackage kotlin.internal\n\n// (a - b) mod c\nprivate fun differenceModulo(a: UInt, b: UInt, c: UInt): UInt {\n   val ac = a % c\n   val bc = b % c\n   return if (ac >= bc) ac - bc else ac - bc + c\n}\n\nprivate fun differenceModulo(a: ULong, b: ULong, c: ULong): ULong {\n   val ac = a % c\n   val bc = b % c\n   return if (ac >= bc) ac - bc else ac - bc + c\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression
which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment,

or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n */\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun getProgressionLastElement(start: UInt, end: UInt, step: Int): UInt = when {\n   step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toUInt())\n   step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toUInt())\n   else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\n}\n\n/**\n * Calculates the final element of a bounded arithmetic progression, i.e. the last element of the progression which is in the range\n * from [start] to [end] in case of a positive [step], or from [end] to [start] in case of a negative\n * [step].\n *\n * No validation on passed parameters is performed. The given parameters should satisfy the condition:\n *\n * - either `step > 0` and `start <= end`,\n * - or `step < 0` and `start >= end`.\n *\n * @param start first element of the progression\n * @param end ending bound for the progression\n * @param step increment, or difference of successive elements in the progression\n * @return the final element of the progression\n * @suppress\n */\n@PublishedApi\n@SinceKotlin(\"1.3\")\ninternal fun getProgressionLastElement(start: ULong, end: ULong, step: Long): ULong = when {\n   step > 0 -> if (start >= end) end else end - differenceModulo(end, start, step.toULong())\n   step < 0 -> if (start <= end) end else end + differenceModulo(start, end, (-step).toULong())\n   else -> throw kotlin.IllegalArgumentException(\"Step is zero.\")\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmName(\"UStringsKt\") // string representation of unsigned numbers\n\npackage kotlin.text\n\n/**\n * Returns a string representation of this [Byte] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun UByte.toString(radix: Int): String = this.toInt().toString(radix)\n\n/**\n * Returns a string representation of this [Short] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun UShort.toString(radix: Int): String = this.toInt().toString(radix)\n\n\n/**\n * Returns a string representation of this [Int] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\n//@kotlin.internal.InlineOnly\npublic /*inline*/ fun UInt.toString(radix: Int): String = this.toLong().toString(radix)\n\n/**\n * Returns a string representation of this [Long] value in the specified [radix].\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for number to string conversion.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun ULong.toString(radix: Int): String = ulongToString(this.toLong(), checkRadix(radix))\n\n\n/**\n * Parses the string as a signed [UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toUByte(): UByte = toUByteOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a signed [UByte] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toUByte(radix: Int): UByte = toUByteOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [UShort] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toUShort(): UShort = toUShortOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [UShort] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toUShort(radix: Int): UShort = toUShortOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as an [UInt] number and returns the

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result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toUInt(): UInt = toUIntOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as an [UInt] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toUInt(radix: Int): UInt = toUIntOrNull(radix) ?: numberFormatError(this)\n\n/**\n * Parses the string as a [ULong] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toULong(): ULong = toULongOrNull() ?: numberFormatError(this)\n\n/**\n * Parses the string as a [ULong] number and returns the result.\n * @throws NumberFormatException if the string is not a valid representation of a number.\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toULong(radix: Int): ULong = toULongOrNull(radix) ?: numberFormatError(this)\n\n\n\n\n\n/**\n * Parses the string as an [UByte] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toUByteOrNull(): UByte? = toUByteOrNull(radix = 10)\n\n/**\n * Parses the string as an [UByte] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toUByteOrNull(radix: Int): UByte? {\n    val int = this.toUIntOrNull(radix) ?: return null\n    if (int > UByte.MAX_VALUE) return null\n    return int.toUByte()\n}\n\n/**\n * Parses the string as an [UShort] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toUShortOrNull(): UShort? = toUShortOrNull(radix = 10)\n\n/**\n * Parses the string as an [UShort] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toUShortOrNull(radix: Int): UShort? {\n    val int = this.toUIntOrNull(radix) ?: return null\n    if (int > UShort.MAX_VALUE) return null\n    return int.toUShort()\n}\n\n/**\n * Parses the string as an [UInt] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toUIntOrNull(): UInt? = toUIntOrNull(radix = 10)\n\n/**\n * Parses the string as an [UInt] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toUIntOrNull(radix: Int): UInt? {\n    checkRadix(radix)\n\n    val length = this.length\n    if (length == 0) return null\n\n    val limit: UInt = UInt.MAX_VALUE\n    val start: Int\n\n    val firstChar = this[0]\n    if (firstChar < '0') {\n        if (length == 1 || firstChar != '+') return null\n        start = 1\n    } else {\n        start = 0\n    }\n\n    val limitForMaxRadix = 119304647u  //  limit / 36\n\n    var limitBeforeMul = limitForMaxRadix\n    val uradix = radix.toUInt()\n    var result = 0u\n    for (i in start until length) {\n        val digit = digitOf(this[i], radix)\n\n        if (digit < 0) return null\n        if (result > limitBeforeMul) {\n            if (limitBeforeMul == limitForMaxRadix) {\n                limitBeforeMul = limit / uradix\n\n                if (result > limitBeforeMul) {\n                    return null\n                }\n            } else {\n                return null\n            }\n        }\n\n        result *= uradix\n\n        val beforeAdding = result\n        result += digit.toUInt()\n        if (result < beforeAdding) return null // overflow has happened\n    }\n\n    return result\n}\n\n/**\n * Parses the string as an [ULong] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toULongOrNull(): ULong? = toULongOrNull(radix = 10)\n\n/**\n * Parses the string as an [ULong] number and returns the result\n * or `null` if the string is not a valid representation of a number.\n *\n * @throws IllegalArgumentException when [radix] is not a
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valid radix for string to number conversion.\n */\n@SinceKotlin(\"1.3\")\n@ExperimentalUnsignedTypes\npublic fun String.toULongOrNull(radix: Int): ULong? {\n checkRadix(radix)\n\n val length = this.length\n if (length == 0) return null\n\n val limit: ULong = ULong.MAX_VALUE\n val start: Int\n\n val firstChar = this[0]\n if (firstChar < '0') {\n if (length == 1 || firstChar != '+') return null\n start = 1\n } else {\n start = 0\n }\n\n\n val limitForMaxRadix = 512409557603043100uL // limit / 36\n\n var limitBeforeMul = limitForMaxRadix\n val uradix = radix.toULong()\n var result = 0uL\n for (i in start until length) {\n val digit = digitOf(this[i], radix)\n\n if (digit < 0) return null\n if (result > limitBeforeMul) {\n if (limitBeforeMul == limitForMaxRadix) {\n limitBeforeMul = limit / uradix\n\n if (result > limitBeforeMul) {\n return null\n }\n } else {\n return null\n }\n }\n\n result *= uradix\n\n val beforeAdding = result\n result += digit.toUInt()\n if (result < beforeAdding) return null // overflow has happened\n }\n\n return result\n}\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed
by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:Suppress(\"INVISIBLE_REFERENCE\", \"INVISIBLE_MEMBER\")\npackage kotlin\n\nimport kotlin.annotation.AnnotationTarget.*\nimport kotlin.internal.RequireKotlin\nimport kotlin.internal.RequireKotlinVersionKind\n\n/**\n * Marks the API that is dependent on the experimental unsigned types, including those types themselves.\n *\n * Usages of such API will be reported as warnings unless an explicit opt-in with\n * the [UseExperimental] annotation, e.g. `@UseExperimental(ExperimentalUnsignedTypes::class)`,\n * or with the `-Xuse-experimental=kotlin.ExperimentalUnsignedTypes` compiler option is given.\n *\n * It's recommended to propagate the experimental status to the API that depends on unsigned types by annotating it with this annotation.\n */\n@Experimental(level = Experimental.Level.WARNING)\n@MustBeDocumented\n@Target(CLASS, ANNOTATION_CLASS, PROPERTY, FIELD, LOCAL_VARIABLE, VALUE_PARAMETER, CONSTRUCTOR,
FUNCTION, PROPERTY_GETTER, PROPERTY_SETTER, TYPEALIAS)\n@Retention(AnnotationRetention.BINARY)\n@RequireKotlin(\"1.2.50\", versionKind = RequireKotlinVersionKind.COMPILER_VERSION)\npublic annotation class ExperimentalUnsignedTypes\n","/*\n * Copyright 2010-2018 JetBrains s.r.o. and Kotlin Programming Language contributors.\n * Use of this source code is governed by the Apache 2.0 license that can be found in the license/LICENSE.txt file.\n */\n\n@file:kotlin.jvm.JvmMultifileClass\n@file:kotlin.jvm.JvmName(\"MathKt\")\n\n\npackage kotlin.math\n\n\n\n// constants, can't use them from nativeMath as they are not constants there\n\n/** Ratio of the circumference of a circle to its diameter, approximately 3.14159. */\n@SinceKotlin(\"1.2\")\npublic const val PI: Double = 3.141592653589793\n/** Base of the natural logarithms, approximately 2.71828. */\n@SinceKotlin(\"1.2\")\npublic const val E: Double = 2.718281828459045\n\n// region ================ Double Math ==\n\n/**
Computes the sine of the angle [x] given in radians.\n *\n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sin(x: Double): Double\n\n/** Computes the cosine of the angle [x] given in radians.\n *\n * Special cases:\n * - `cos(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun cos(x: Double): Double\n\n/** Computes the tangent of the angle [x] given in radians.\n *\n * Special cases:\n * - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun tan(x: Double): Double\n\n/**\n * Computes the arc sine of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n * - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun asin(x: Double): Double\n\n/**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from `0.0` to
`PI` radians.\n *\n * Special cases:\n * - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun acos(x: Double): Double\n\n/**\n * Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n * - `atan(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atan(x: Double): Double\n\n/**\n * Returns

the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle in the range from `-PI` to `PI` radians.\n *\n * Special cases:\n * - `atan2(0.0, 0.0)` is `0.0`\n * - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\n * - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\n *  - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\n * - `atan2(y, -Inf)` is `PI`
for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n * - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n * - `atan2(+Inf, x)` is `PI/2` for finite `x`y\n * - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atan2(y: Double, x: Double): Double\n\n/**\n * Computes the hyperbolic sine of the value [x].\n *\n * Special cases:\n * - `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is `+Inf`\n * - `sinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sinh(x: Double): Double\n\n/**\n * Computes the hyperbolic cosine of the value [x].\n *\n * Special cases:\n * - `cosh(NaN)` is `NaN`\n * - `cosh(+Inf|-Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun cosh(x: Double): Double\n\n/**\n * Computes the hyperbolic tangent of the value [x].\n *\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `1.0`\n * - `tanh(-Inf)` is `-1.0`\n */\n@SinceKotlin(\"1.2\")\npublic
expect fun tanh(x: Double): Double\n\n/**\n * Computes the inverse hyperbolic sine of the value [x].\n *\n * The returned value is `y` such that `sinh(y) == x`.\n *\n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * - `asinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun asinh(x: Double): Double\n\n/**\n * Computes the inverse hyperbolic cosine of the value [x].\n *\n * The returned value is positive `y` such that `cosh(y) == x`.\n *\n * Special cases:\n * - `acosh(NaN)` is `NaN`\n * - `acosh(x)` is `NaN` when `x < 1`\n * - `acosh(+Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun acosh(x: Double): Double\n\n/**\n * Computes the inverse hyperbolic tangent of the value [x].\n *\n * The returned value is `y` such that `tanh(y) == x`.\n *\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\n * - `tanh(1.0)` is `+Inf`\n * - `tanh(-1.0)` is
`-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atanh(x: Double): Double\n\n/**\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n *\n * Special cases:\n * - returns `+Inf` if any of arguments is infinite\n * - returns `NaN` if any of arguments is `NaN` and the other is not infinite\n */\n@SinceKotlin(\"1.2\")\npublic expect fun hypot(x: Double, y: Double): Double\n\n/**\n * Computes the positive square root of the value [x].\n *\n * Special cases:\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sqrt(x: Double): Double\n\n/**\n * Computes Euler's number `e` raised to the power of the value [x].\n *\n * Special cases:\n * - `exp(NaN)` is `NaN`\n * - `exp(+Inf)` is `+Inf`\n * - `exp(-Inf)` is `0.0`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun exp(x: Double): Double\n\n/**\n * Computes `exp(x) - 1`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n * - `expm1(NaN)` is `NaN`\n * - `expm1(+Inf)` is `+Inf`\n * - `expm1(-Inf)` is `-1.0`\n *\n * @see [exp] function.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun expm1(x: Double): Double\n\n/**\n * Computes the logarithm of the value [x] to the given [base].\n *\n * Special cases:\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n * - `log(+Inf, +Inf)` is `NaN`\n * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n *\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log(x: Double, base: Double): Double\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x].\n *\n * Special cases:\n * - `ln(NaN)` is `NaN`\n * - `ln(x)` is `NaN` when `x < 0.0`\n * - `ln(+Inf)` is `+Inf`\n * - `ln(0.0)` is `-Inf`\n
*/\n@SinceKotlin(\"1.2\")\npublic expect fun ln(x: Double): Double\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log10(x: Double): Double\n\n/**\n * Computes the binary logarithm (base 2) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log2(x: Double): Double\n\n/**\n * Computes `ln(x + 1)`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n * - `ln1p(NaN)` is `NaN`\n * - `ln1p(x)` is `NaN` where `x < -1.0`\n * - `ln1p(-1.0)` is `-Inf`\n * - `ln1p(+Inf)` is `+Inf`\n *\n * @see [ln] function\n * @see [expm1] function\n

*/\n@SinceKotlin(\"1.2\")\npublic expect fun ln1p(x: Double): Double\n\n/**\n * Rounds the given value [x] to an integer towards positive infinity.\n\n * @return the smallest double value that is greater than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun ceil(x: Double): Double\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n\n * @return the largest double value that is smaller than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun floor(x: Double): Double\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n *\n * @return the value [x] having its fractional part truncated.\n *\n * Special cases:\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun truncate(x: Double): Double\n\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n *\n * Special cases:\n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun round(x: Double): Double\n\n/**\n * Returns the absolute value of the given value [x].\n *\n * Special cases:\n * - `abs(NaN)` is `NaN`\n *\n * @see absoluteValue extension property for [Double]\n */\n@SinceKotlin(\"1.2\")\npublic expect fun abs(x: Double): Double\n\n/**\n * Returns the sign of the given value [x]:\n * - `-1.0` if the value is negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n *\n * Special case:\n * - `sign(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sign(x: Double): Double\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun min(a: Double, b: Double): Double\n\n/**\n * Returns the greater of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun max(a: Double, b: Double): Double\n\n// extensions\n\n/**\n * Raises this value to the power [x].\n *\n * Special cases:\n * - `b.pow(0.0)` is `1.0`\n * - `b.pow(1.0) == b`\n * - `b.pow(NaN)` is `NaN`\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.pow(x: Double): Double\n\n/**\n * Raises this value to the integer power [n].\n *\n * See the other overload of [pow] for details.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.pow(n: Int): Double\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\npublic expect val Double.absoluteValue: Double\n\n/**\n * Returns the sign of this value:\n * - `-1.0` if the value is negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n *\n * Special case:\n * - `NaN.sign` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect val Double.sign: Double\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *\n * If [sign] is `NaN` the sign of the result is undefined.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.withSign(sign: Double): Double\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.withSign(sign: Int): Double\n\n/**\n * Returns the ulp (unit in the last place) of this value.\n *\n * An ulp is a positive distance between this value and the next nearest [Double] value larger in magnitude.\n *\n * Special Cases:\n * - `NaN.ulp` is `NaN`\n * - `x.ulp` is `+Inf` when `x` is `+Inf` or `-Inf`\n * - `0.0.ulp` is `Double.MIN_VALUE`\n */\n@SinceKotlin(\"1.2\")\npublic expect val Double.ulp: Double\n\n/**\n * Returns the [Double] value nearest to this value in direction of positive infinity.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.nextUp(): Double\n\n/**\n * Returns the [Double] value nearest to this value in direction of negative infinity.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.nextDown(): Double\n\n/**\n * Returns the [Double] value nearest to this value in direction from this value towards the value [to].\n *\n * Special cases:\n * - `x.nextTowards(y)` is `NaN` if either `x` or `y` are `NaN`\n * - `x.nextTowards(x) == x`\n *\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.nextTowards(to: Double): Double\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Int].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n

*\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.roundToInt(): Int\n\n/**\n * Rounds this [Double] value to the nearest integer and converts the result to [Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Double.roundToLong(): Long\n\n// endregion\n\n\n\n// region ================ Float Math ======================================\n\n/** Computes the sine of the angle [x] given in radians.\n *\n * Special cases:\n * - `sin(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sin(x: Float): Float\n\n/** Computes the cosine of the angle [x] given in radians.\n *\n * Special cases:\n * - `cos(NaN|+Inf|-Inf)`
 is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun cos(x: Float): Float\n\n/** Computes the tangent of the angle [x] given in radians.\n *\n * Special cases:\n * - `tan(NaN|+Inf|-Inf)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun tan(x: Float): Float\n\n/**\n * Computes the arc sine of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n * - `asin(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun asin(x: Float): Float\n\n/**\n * Computes the arc cosine of the value [x];\n * the returned value is an angle in the range from `0.0` to `PI` radians.\n *\n * Special cases:\n * - `acos(x)` is `NaN`, when `abs(x) > 1` or x is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun acos(x: Float): Float\n\n/**\n * Computes the arc tangent of the value [x];\n * the returned value is an angle in the range from `-PI/2` to `PI/2` radians.\n *\n * Special cases:\n * - `atan(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atan(x: Float): Float\n\n/**\n * Returns the angle `theta` of the polar coordinates `(r, theta)` that correspond\n * to the rectangular coordinates `(x, y)` by computing the arc tangent of the value [y] / [x];\n * the returned value is an angle in the range from `-PI` to `PI` radians.\n *\n * Special cases:\n * - `atan2(0.0, 0.0)` is `0.0`\n * - `atan2(0.0, x)` is `0.0` for `x > 0` and `PI` for `x < 0`\n * - `atan2(-0.0, x)` is `-0.0` for 'x > 0` and `-PI` for `x < 0`\n *  - `atan2(y, +Inf)` is `0.0` for `0 < y < +Inf` and `-0.0` for '-Inf < y < 0`\n * - `atan2(y, -Inf)` is `PI` for `0 < y < +Inf` and `-PI` for `-Inf < y < 0`\n * - `atan2(y, 0.0)` is `PI/2` for `y > 0` and `-PI/2` for `y < 0`\n * - `atan2(+Inf, x)` is `PI/2` for finite `x`y\n * - `atan2(-Inf, x)` is `-PI/2` for finite `x`\n * - `atan2(NaN, x)` and `atan2(y, NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atan2(y: Float,
 x: Float): Float\n\n/**\n * Computes the hyperbolic sine of the value [x].\n *\n * Special cases:\n * - `sinh(NaN)` is `NaN`\n * - `sinh(+Inf)` is `+Inf`\n * - `sinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sinh(x: Float): Float\n\n/**\n * Computes the hyperbolic cosine of the value [x].\n *\n * Special cases:\n * - `cosh(NaN)` is `NaN`\n * - `cosh(+Inf|-Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun cosh(x: Float): Float\n\n/**\n * Computes the hyperbolic tangent of the value [x].\n *\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(+Inf)` is `1.0`\n * - `tanh(-Inf)` is `-1.0`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun tanh(x: Float): Float\n\n/**\n * Computes the inverse hyperbolic sine of the value [x].\n *\n * The returned value is `y` such that `sinh(y) == x`.\n *\n * Special cases:\n * - `asinh(NaN)` is `NaN`\n * - `asinh(+Inf)` is `+Inf`\n * - `asinh(-Inf)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic
 expect fun asinh(x: Float): Float\n\n/**\n * Computes the inverse hyperbolic cosine of the value [x].\n *\n * The returned value is positive `y` such that `cosh(y) == x`.\n *\n * Special cases:\n * - `acosh(NaN)` is `NaN`\n * - `acosh(x)` is `NaN` when `x < 1`\n * - `acosh(+Inf)` is `+Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun acosh(x: Float): Float\n\n/**\n * Computes the inverse hyperbolic tangent of the value [x].\n *\n * The returned value is `y` such that `tanh(y) == x`.\n *\n * Special cases:\n * - `tanh(NaN)` is `NaN`\n * - `tanh(x)` is `NaN` when `x > 1` or `x < -1`\n * - `tanh(1.0)` is `+Inf`\n * - `tanh(-1.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun atanh(x: Float): Float\n\n/**\n * Computes `sqrt(x^2 + y^2)` without intermediate overflow or underflow.\n *\n * Special cases:\n * - returns `+Inf` if any of arguments is infinite\n * - returns `NaN` if any of arguments is `NaN` and the other is not infinite\n */\n@SinceKotlin(\"1.2\")\npublic
 expect fun hypot(x: Float, y: Float): Float\n\n/**\n * Computes the positive square root of the value [x].\n *\n * Special cases:\n * - `sqrt(x)` is `NaN` when `x < 0` or `x` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun

sqrt(x: Float): Float\n\n/**\n * Computes Euler's number `e` raised to the power of the value [x].\n *\n * Special cases:\n * - `exp(NaN)` is `NaN`\n * - `exp(+Inf)` is `+Inf`\n * - `exp(-Inf)` is `0.0`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun exp(x: Float): Float\n\n/**\n * Computes `exp(x) - 1`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n * - `expm1(NaN)` is `NaN`\n * - `expm1(+Inf)` is `+Inf`\n * - `expm1(-Inf)` is `-1.0`\n *\n * @see [exp] function.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun expm1(x: Float): Float\n\n/**\n * Computes the logarithm of the value [x] to the given [base].\n *\n * Special cases:\n * - `log(x, b)` is `NaN` if either `x` or `b` are `NaN`\n * - `log(x, b)` is `NaN` when `x < 0` or `b <= 0` or `b == 1.0`\n * - `log(+Inf, +Inf)` is `NaN`\n * - `log(+Inf, b)` is `+Inf` for `b > 1` and `-Inf` for `b < 1`\n * - `log(0.0, b)` is `-Inf` for `b > 1` and `+Inf` for `b > 1`\n *\n * See also logarithm functions for common fixed bases: [ln], [log10] and [log2].\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log(x: Float, base: Float): Float\n\n/**\n * Computes the natural logarithm (base `E`) of the value [x].\n *\n * Special cases:\n * - `ln(NaN)` is `NaN`\n * - `ln(x)` is `NaN` when `x < 0.0`\n * - `ln(+Inf)` is `+Inf`\n * - `ln(0.0)` is `-Inf`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun ln(x: Float): Float\n\n/**\n * Computes the common logarithm (base 10) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log10(x: Float): Float\n\n/**\n * Computes the binary logarithm (base 2) of the value [x].\n *\n * @see [ln] function for special cases.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun log2(x: Float): Float\n\n/**\n * Computes `ln(a + 1)`.\n *\n * This function can be implemented to produce more precise result for [x] near zero.\n *\n * Special cases:\n * - `ln1p(NaN)` is `NaN`\n * - `ln1p(x)` is `NaN` where `x < -1.0`\n * - `ln1p(-1.0)` is `-Inf`\n * - `ln1p(+Inf)` is `+Inf`\n *\n * @see [ln] function\n * @see [expm1] function\n */\n@SinceKotlin(\"1.2\")\npublic expect fun ln1p(x: Float): Float\n\n/**\n * Rounds the given value [x] to an integer towards positive infinity.\n\n * @return the smallest Float value that is greater than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n * - `ceil(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun ceil(x: Float): Float\n\n/**\n * Rounds the given value [x] to an integer towards negative infinity.\n\n * @return the largest Float value that is smaller than or equal to the given value [x] and is a mathematical integer.\n *\n * Special cases:\n * - `floor(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun floor(x: Float): Float\n\n/**\n * Rounds the given value [x] to an integer towards zero.\n *\n * @return the value [x] having its fractional part truncated.\n *\n * Special cases:\n * - `truncate(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun truncate(x: Float): Float\n\n/**\n * Rounds the given value [x] towards the closest integer with ties rounded towards even integer.\n *\n * Special cases:\n * - `round(x)` is `x` where `x` is `NaN` or `+Inf` or `-Inf` or already a mathematical integer.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun round(x: Float): Float\n\n\n/**\n * Returns the absolute value of the given value [x].\n *\n * Special cases:\n * - `abs(NaN)` is `NaN`\n *\n * @see absoluteValue extension property for [Float]\n */\n@SinceKotlin(\"1.2\")\npublic expect fun abs(x: Float): Float\n\n/**\n * Returns the sign of the given value [x]:\n * - `-1.0` if the value is negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n *\n * Special case:\n * - `sign(NaN)` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun sign(x: Float): Float\n\n\n\n/**\n * Returns the smaller of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun min(a: Float, b: Float): Float\n\n/**\n * Returns the greater of two values.\n *\n * If either value is `NaN`, then the result is `NaN`.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun max(a: Float, b: Float): Float\n\n// extensions\n\n\n/**\n * Raises this value to the power [x].\n *\n * Special cases:\n * - `b.pow(0.0)` is `1.0`\n * - `b.pow(1.0) == b`\n * - `b.pow(NaN)` is `NaN`\n * - `NaN.pow(x)` is `NaN` for `x != 0.0`\n * - `b.pow(Inf)` is `NaN` for `abs(b) == 1.0`\n * - `b.pow(x)` is `NaN` for `b < 0` and `x` is finite and not an integer\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.pow(x: Float): Float\n\n/**\n * Raises this value to the integer power [n].\n *\n * See the other overload of [pow] for details.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.pow(n: Int): Float\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * - `NaN.absoluteValue` is `NaN`\n *\n * @see abs function\n

*/\n@SinceKotlin(\"1.2\")\npublic expect val Float.absoluteValue: Float\n\n/**\n * Returns the sign of this value:\n * - `-1.0` if the value is negative,\n * - zero if the value is zero,\n * - `1.0` if the value is positive\n *\n * Special case:\n * - `NaN.sign` is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect val Float.sign: Float\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n *\n * If [sign] is `NaN` the sign of the result is undefined.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.withSign(sign: Float): Float\n\n/**\n * Returns this value with the sign bit same as of the [sign] value.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.withSign(sign: Int): Float\n\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to [Int].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * - `x.roundToInt() == Int.MAX_VALUE` when `x > Int.MAX_VALUE`\n * - `x.roundToInt() == Int.MIN_VALUE` when `x < Int.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.roundToInt(): Int\n\n/**\n * Rounds this [Float] value to the nearest integer and converts the result to [Long].\n * Ties are rounded towards positive infinity.\n *\n * Special cases:\n * - `x.roundToLong() == Long.MAX_VALUE` when `x > Long.MAX_VALUE`\n * - `x.roundToLong() == Long.MIN_VALUE` when `x < Long.MIN_VALUE`\n *\n * @throws IllegalArgumentException when this value is `NaN`\n */\n@SinceKotlin(\"1.2\")\npublic expect fun Float.roundToLong(): Long\n\n\n// endregion\n\n// region ================ Integer Math ==\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n * - `abs(Int.MIN_VALUE)` is `Int.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue extension property for [Int]\n */\n@SinceKotlin(\"1.2\")\npublic expect fun abs(n: Int): Int\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun min(a: Int, b: Int): Int\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun max(a: Int, b: Int): Int\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * - `Int.MIN_VALUE.absoluteValue` is `Int.MIN_VALUE` due to an overflow\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\npublic expect val Int.absoluteValue: Int\n\n/**\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value is positive\n */\n@SinceKotlin(\"1.2\")\npublic expect val Int.sign: Int\n\n\n\n/**\n * Returns the absolute value of the given value [n].\n *\n * Special cases:\n * - `abs(Long.MIN_VALUE)` is `Long.MIN_VALUE` due to an overflow\n *\n * @see absoluteValue extension property for [Long]\n */\n@SinceKotlin(\"1.2\")\npublic expect fun abs(n: Long): Long\n\n/**\n * Returns the smaller of two values.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun min(a: Long, b: Long): Long\n\n/**\n * Returns the greater of two values.\n */\n@SinceKotlin(\"1.2\")\npublic expect fun max(a: Long, b: Long): Long\n\n/**\n * Returns the absolute value of this value.\n *\n * Special cases:\n * - `Long.MIN_VALUE.absoluteValue` is `Long.MIN_VALUE` due to an overflow\n *\n * @see abs function\n */\n@SinceKotlin(\"1.2\")\npublic expect val Long.absoluteValue: Long\n\n/**\n * Returns the sign of this value:\n * - `-1` if the value is negative,\n * - `0` if the value is zero,\n * - `1` if the value is positive\n */\n@SinceKotlin(\"1.2\")\npublic expect val Long.sign: Int\n\n\n// endregion\n",null,null,null,null,null,null,null,null,null],"names":[],"mappings":"AAWC,CAXA,yB;EACG,IAAI,OAAO,MAAO,KAAI,UAAW,IAAG,MAAM,IAA1C,C;IACI,MAAM,CAAC,QAAD,EAAW,CAAC,SAAD,CAAX,EAAwB,OAAxB,C;;QAEL,IAAI,OAAO,OAAQ,KAAI,QAAvB,C;IACD,OAAO,CAAC,MAAM,QAAP,C;;;IAGP,IAAI,OAAQ,GAAE,E;IACd,OAAO,CAAC,IAAI,OAAL,C;;CAEd,CAAC,IAAD,EAAO,kB;EACJ,IAAI,IAAI,M;ECPZ,MAAM,eAAgB,GAAE,a;IACpB,OAAoD,CAA5C,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAE,YAAW,SAAW,KAAG,CAAC,OAAQ,KAAI,c;G;EAGxE,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,YAAW,SAAU,IAAG,CAAC,OAAQ,KAAI,c;G;EAGlD,MAAM,aAAc,GAAE,a;IAClB,OAAO,CAAE,YAAW,U;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,OAAO,CAAE,YAAW,WAAY,IAAG,CAAC,OAAQ,KAAI,W;G;EAGpD,MAAM,WAAY,GAAE,a;IAChB,OAAO,CAAE,YAAW,U;G;EAGxB,MAAM,aAAc,GAAE,a;IAClB,OAAO,CAAE,YAAW,Y;G;EAGxB,MAAM,cAAe,GAAE,a;IACnB,OAAO,CAAE,YAAW,Y;G;EAGxB,MAAM,YAAa,GAAE,a;IACjB,OAAO,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAC,OAAQ,KAAI,W;G;EAG5C,MAAM,QAAS,GAAE,a;IACb,OAAO,KAAK,QAAQ,CAAC,CAAD,CAAI,IAAG,CAAC,CAAC,O;G;EAGjC,MAAM,WAAY,GAAE,a;IAChB,O

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AGX,+B;MAII,IAkkDO,qBAAQ,CAlkDf,C;QAAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,IAAK,C;MAC
L,OAAO,I;K;IAGX,+B;MAII,IAgkDO,qBAAQ,CAhkDf,C;QAAAe,OAAO,W;MACtB,WAAW,0B;MACN,WAAL,
IAAK,C;MACL,OAAO,I;K;IAGX,+B;MAII,IA8jDO,qBAAQ,CA9jDf,C;QAAAe,OAAO,W;MACtB,WAAW,0B;M
ACN,WAAL,IAAK,C;MACL,OAAO,I;K;IAGX,kC;MAII,IAo/CO,qBAAQ,CAp/Cf,C;QAAAe,OAAO,S;MACtB,a
AAa,aAAa,SAAb,EAAAmB,gBAAAnB,C;MACb,gBAAAgB,wB;MAChB,aAAU,CAAAV,OAAAa,SAAb,M;QACI,OAA
O,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAg/CO,qBAAQ,CAh/Cf,
C;QAAAe,OAAO,S;MACtB,aAAa,cAAU,gBAAAV,C;MACb,gBAAAgB,0B;MAChB,aAAU,CAAAV,OAAAa,SAAb,M;
QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IA4+CO,qBA
AQ,CA5+Cf,C;QAAAe,OAAO,S;MACtB,aAAa,eAAW,gBAAAX,C;MACb,gBAAAgB,0B;MAChB,aAAU,CAAAV,OA

Aa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,I
Aw+CO,qBAAQ,CAx+Cf,C;QAAe,OAAO,S;MACtB,aAAa,eAAS,gBAAT,C;MACb,gBAAgB,0B;MAChB,aAAU
,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX
,oC;MAII,IAo+CO,qBAAQ,CAp+Cf,C;QAAe,OAAO,S;MACtB,aAAa,iBAAU,gBAAV,C;MACb,gBAAgB,0B;M
AChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAA
O,M;K;IAGX,oC;MAII,IAg+CO,qBAAQ,CAh+Cf,C;QAAe,OAAO,S;MACtB,aAAa,iBAAW,gBAAX,C;MACb,g
BAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;
MAC5B,OAAO,M;K;IAGX,oC;MAII,IA49CO,qBAAQ,CA59Cf,C;QAAe,OAAO,S;MACtB,aAAa,iBAAY,gBAA
Z,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAAP,IAAwB,UA
AK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAw9CO,qBAAQ,CAx9Cf,C;QAAe,OAAO,S;MACtB,aAAa,
oBAAa,gBAAb,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY,CAAZ,IAA
P,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;IAGX,oC;MAII,IAo9CO,qBAAQ,CAp9Cf,C;QAAe,OAAO,S;M
ACtB,aAAa,iBAAU,gBAAV,C;MACb,gBAAgB,0B;MAChB,aAAU,CAAV,OAAa,SAAb,M;QACI,OAAO,YAAY
,CAAZ,IAAP,IAAwB,UAAK,CAAL,C;MAC5B,OAAO,M;K;kFAGX,yB;MAAA,oD;Mej4JA,sC;MCjFA,kC;MA
AA,oC;MAAA,sD;QAAsG,4C;O;MAAtG,6CACI,gB;QAAwC,+BAAW,CAAX,EAAc,CAAd,C;O;MAD5C,kF;M
DiFA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,C
AAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;Mf03Jf,sC;QAMI,IAAI,mBAAO,CAAX,C;UAAc,iDeh4
JH,iBfg4JsB,Qeh4JtB,Cfg4JG,E;;O;KANlB,C;sGASA,yB;MAAA,oD;Mev3JA,sC;MCpGA,kC;MAAA,oC;MAAA
,sD;QAAsG,4C;O;MAAtG,6CACI,gB;QAAwC,+BAAW,CAAX,EAAc,CAAd,C;O;MAD5C,kF;MDoGA,iCAOe,y
B;QAxFf,8D;eAwFe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA/Ed,cAAc,SA+EgB,CA/EhB,CAAd,EAA2B,SA
+EM,CA/EN,CAA3B,C;W;S;OA+EI,C;Mfg3Jf,sC;QAMI,IAAI,mBAAO,CAAX,C;UAAc,iDet3JH,2Bfs3JgC,Qet3
JhC,Cfs3JG,E;;O;KANlB,C;IASA,mC;MAMI,oBAAS,cAAT,C;K;IAGJ,qC;MAII,IAAI,mBAAO,CAAX,C;QACI,
e;QACA,oB;;K;IAIR,qC;MAII,IAAI,mBAAO,CAAX,C;QACI,e;QACA,oB;;K;IAIR,qC;MAII,IAAI,mBAAO,CA
AX,C;QACI,e;QACA,oB;;K;IAIR,qC;MAII,IAAI,mBAAO,CAAX,C;QACI,iB;QACA,oB;;K;IAIR,qC;MAII,IAAI,
mBAAO,CAAX,C;QACI,e;QACA,oB;;K;IAIR,qC;MAII,IAAI,mBAAO,CAAX,C;QACI,e;QACA,oB;;K;IAIR,qC;
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I0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,OiB1/JhC,WjB0/JgC,C;K;IAG3C,6B;MAI0B,kBAAf,yB;MAAuB,
mB;MAA9B,OAAuC,OiBjgKhC,WjBigKgC,C;K;IAG3C,6B;MAI0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,O
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C;K;IAG3C,6B;MAI0B,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,OiBthKhC,WjBshKgC,C;K;IAG3C,6B;MAI0B
,kBAAf,yB;MAAuB,mB;MAA9B,OAAuC,OiB7hKhC,WjB6hKgC,C;K;IAG3C,6B;MAI0B,kBAAf,0B;MAAuB,m
B;MAA9B,OAAuC,OiBpiKhC,WjBoiKgC,C;K;IAG3C,gC;MAMI,IA2uCO,qBAAQ,CA3uCf,C;QAAe,OAAO,S;
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KX,kC;MAII,IA2uCO,qBAAQ,CA3uCf,C;QAAe,OAAO,S;MACD,kBAAT,UAAL,SAAK,C;MAAiB,mB;MAA7B
,OiB9kKO,W;K;IjBilKX,kC;MAII,IA2uCO,qBAAQ,CA3uCf,C;QAAe,OAAO,S;MACD,kBAAd,Sc54IiB,Q;Md44
IK,iB;MAA7B,OiBtlKO,W;K;IjBylKX,kC;MAII,IA2uCO,qBAAQ,CA3uCf,C;QAAe,OAAO,S;MACD,kBAAd,Sc
14IiB,Q;Md04IK,iB;MAA7B,OiB9lKO,W;K;IjBimKX,kC;MAII,IAmvCO,qBAAQ,CAnvCf,C;QAAe,OAAO,S;M
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Cf,C;QAAe,OAAO,S;MACD,kBAAd,Scv9IiB,Q;Mdu9IK,sBAAS,cAAT,C;MAA7B,OiBhnKO,W;K;IjBmnKX,4C
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;K;IjB2nKX,4C;MAII,IAyqCO,qBAAQ,CAzqCf,C;QAAe,OAAO,S;MACD,kBAAd,Scn9IiB,Q;Mdm9IK,6B;MAA
7B,OiBhoKO,W;K;IjBmoKX,4C;MAII,IAyqCO,qBAAQ,CAzqCf,C;QAAe,OAAO,S;MACD,kBAAd,Scj9IiB,Q;M
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AAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C
;W;S;OA4DI,C;MfmqKf,sC;QAMI,OAAO,mDezqKI,iBfyqKiB,QezqKjB,CfyqKJ,E;O;KANX,C;wFASA,yB;MAA
A,wD;MenrKA,sC;MCjFA,kC;MAAA,oC;MAAA,sD;QAAsG,4C;O;MAAtG,6CACI,gB;QAAwC,+BAAW,CAAX
,EAAc,CAAd,C;O;MAD5C,kF;MDiFA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,O
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AO,mDehrKI,iBfgrKiB,QehrKjB,CfgrKJ,E;O;KAJX,C;wFAOA,yB;MAAA,wD;Me1rKA,sC;MCjFA,kC;MAAA,o
C;MAAA,sD;QAAsG,4C;O;MAAtG,6CACI,gB;QAAwC,+BAAW,CAAX,EAAc,CAAd,C;O;MAD5C,kF;MDiFA,
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E;O;KAJX,C;wFAOA,yB;MAAA,wD;MejsKA,sC;MCjFA,kC;MAAA,oC;MAAA,sD;QAAsG,4C;O;MAAtG,6CA
CI,gB;QAAwC,+BAAW,CAAX,EAAc,CAAd,C;O;MAD5C,kF;MDiFA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,u
B;YAAU,eAAsB,gB;YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;
OA4DI,C;Mf0rKf,sC;QAII,OAAO,mDe9rKI,iBf8rKiB,Qe9rKjB,Cf8rKJ,E;O;KAJX,C;wFAOA,yB;MAAA,wD;Me
xsKA,sC;MCjFA,kC;MAAA,oC;MAAA,sD;QAAsG,4C;O;MAAtG,6CACI,gB;QAAwC,+BAAW,CAAX,EAAc,C
AAd,C;O;MAD5C,kF;MDiFA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;YAAtB,OA5Dd,cA
Ac,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MfisKf,sC;QAII,OAAO,mDers
KI,iBfqsKiB,QersKjB,CfqsKJ,E;O;KAJX,C;wFAOA,yB;MAAA,wD;Me/sKA,sC;MCjFA,kC;MAAA,oC;MAAA,s
D;QAAsG,4C;O;MAAtG,6CACI,gB;QAAwC,+BAAW,CAAX,EAAc,CAAd,C;O;MAD5C,kF;MDiFA,uBAOe,yB;
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DM,CA5DN,CAA3B,C;W;S;OA4DI,C;MfwsKf,sC;QAII,OAAO,mDe5sKI,iBf4sKiB,Qe5sKjB,Cf4sKJ,E;O;KAJX,
C;wFAOA,yB;MAAA,wD;MettKA,sC;MCjFA,kC;MAAA,oC;MAAA,sD;QAAsG,4C;O;MAAtG,6CACI,gB;QAAwC,+
BAAW,CAAX,EAAc,CAAd,C;O;MAD5C,kF;MDiFA,uBAOe,yB;QArEf,8D;eAqEe,4B;UAAA,uB;YAAU,eAAsB,gB;
YAAtB,OA5Dd,cAAc,SA4DgB,CA5DhB,CAAd,EAA2B,SA4DM,CA5DN,CAA3B,C;W;S;OA4DI,C;Mf+sKf,sC;QAII,
OAAO,mDentKI,iBfmtKiB,QentKjB,CfmtKJ,E;O;KAJX,C;wFAOA,yB;MAAA,wD;Me7tKA,sC;MCjFA,kC;MAAA,o
C;MAAA,sD;QAAsG,4C;O;MAAtG,6CACI,gB;QAAwC,+BAAW,CAAX,EAAc,CAAd,C;O;MAD5C,kF;MDiFA,
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C;wFAOA,yB;MAAA,wD;MepuKA,sC;MCjFA,kC;MAAA,oC;MAAA,sD;QAAsG,4C;O;MAAtG,6CACI,gB;QAAwC,+
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OA+EI,C;MfitKf,sC;QAMI,OAAO,mDevtKI,2BfutKiB,QevtKjB,CfutKJ,E;O;KANX,C;4GASA,yB;MAAA,wD;
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;IAGX,sE;MAkBkD,oB;QAAA,OAAY,C;MAAG,8B;QAAA,iBAA0B,K;MACvF,oBAAoB,IAApB,EAA0B,IAA1
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;uFAGJ,gC;MAoLoB,Q;MADhB,WAAe,I;MACC,2B;MAAhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IA9Kc,SA8
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K,EhC7aL,CgC6aL,C;W;S;OAAF,C;MAPhC,uC;QAOmB,kBAAR,iB;QAAQ,uB;;UnC2rBf,0D;YACI,ImC5rB0B,
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E;;;QmChsBP,0B;O;KAPJ,C;iGAUA,yB;MAAA,sC;MF3aA,+B;ME2aA,0BAOgC,yB;QFlbhC,+B;eEkbgC,6B;UA
AA,qB;YAAE,yBFxaQ,eEwaE,EFxaF,CEwaR,C;W;S;OAAF,C;MAPhC,uC;QAOmB,kBAAR,iB;QAAQ,uB;;UnC
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BgeX,C;W;S;OAAF,C;MAPhC,uC;QAOmB,kBAAR,iB;QAAQ,uB;;UnCipBf,0D;YACI,ImClpB0B,U/BheW,gBJk
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0B;O;KAPJ,C;+FAUA,yB;MAAA,sC;MnCkwBA,0D;MAAA,+C;MG1tCA,6B;MgCwdA,yBAO+B,yB;QhC/d/B,6
B;egC+d+B,6B;UAAA,qB;YAAE,yBhCrdM,cgCqdI,EhCrdJ,CgCqdN,C;W;S;OAAF,C;MAP/B,uC;QAOmB,kBA
AR,iB;QAAQ,sB;;UnC+vBD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAd,OAAc,cAAd,C;YAAc,uB;YAC
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B,uC;QAOmB,kBAAR,iB;QAAQ,sB;;UnCiwBD,Q;UAAA,OAAQ,SAAR,wBAAQ,CAAR,W;UAAd,OAAc,cAAd
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DAAvB,C;O;KAZV,C;iFAeA,yB;MAAA,+C;MAAA,iE;MA+4EI,0D;MA/4EJ,uC;QAQkB,Q;QAAA,OAAa,SAu4
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;+EAmBA,yB;MAAA,gE;MjBj0LA,iB;MiBi0LA,8C;QAWI,WjBr0LO,MAAK,KiBq0LK,cjBr0LL,EiBq0LW,KA
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+DAIf,gB;MAEI,YAAY,MAAY,IAAK,OAAjB,C;MACZ,sBAAU,IAAV,a;QACI,UAAU,KAAK,CAAL,C;QACV,

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AL,E;O;K;IAJlC,oC;MAII,OAAO,iBAAM,gBAAN,EAAY,gCAAZ,C;K;ImDtkDX,+B;MAII,eAAe,CAAC,iBAAO,CAAP,IAAD,IAAa,CAAb,I;MACf,IAAI,WAAW,CAAf,C;QAAkB,M;MAClB,mBAAmB,2B;MACnB,iBAAc,CAAd,WAAiB,QAAjB,U;QACI,UAAU,sBAAK,KAAL,C;QACV,sBAAK,KAAL,EAAc,sBAAK,YAAL,CAAd,C;QACA,sBAAK,YAAL,EAAqB,GAAAr B,C;QACA,mC;;K;I/CbR,uB;MAMI,OAAW,oBAAK,CAAL,EAAO,CAAP,EAAS,CAAT,EAAW,CAAX,EAAa,CAAb,EAAe,CAAf,EAAiB,CAAjB,EAAmB,CAAnB,EAAqB,CAArB,EAAuB,CAAvB,EAAyB,CAAzB,EAA2B,CAA3B,EAA6B,CAA7B,EAA+B,CAA/B,EAAiC,CAAjC,EAAmC,CAAnC,EAAqC,CAArC,EAAuC,CAAvC,EAAyC,CAAzC,EAA2C,CAA3C,EAA6C,CAA7C,EAA+C,CAA/C,EAAiD,CAAjD,EAAmD,CAAnD,EAAqD,CAArD,EAAuD,CAAvD,EAAyD,CAAzD,EAA2D,CAA3D,EAA6D,CAA7D,EAA+D,CAA/D,EAAiE,CAAjE,EAAmE,CAAnE,EAAqE,CAArE,EAAuE,CAAvE,EAAyE,CAAzE,EAA2E,CAA3E,EAA6E,CAA7E,EAA+E,CAA/E,EAAiF,CAAjF,EAAmF,CAAnF,EAAqF,CAArF,EAAuF,CAAvF,EAAyF,CAAzF,EAA2F,CAA3F,EAA6F,CAA7F,EAA+F,CAA/F,EAAiG,CAAjG,EAAmG,CAAnG,EAAqG,CAArG,EAAuG,CAAvG,EAAyG,CAAzG,EAA2G,CAA3G,EAA6G,CAA7G,EAA+G,CAA/G,EAAiH,CAAjH,EAAmH,CAAnH,EAAqH,CAArH,EAAuH,CAAvH,EAAyH,CAAzH,EAA2H,CAA3H,EAA6H,CAA7H,EAA+H,CAA/H,EAAiI,CAAjI,EAAmI,CAAnI,EAAqI,CAArI,EAAuI,CAAvI,EAAyI,CAAzI,EAA2I,CAA3I,EAA6I,CAA7I,EAA+I,CAA/I,EAAiJ,CAAjJ,EAAmJ,CAAnJ,EAAqJ,CAArJ,EAAuJ,CAAvJ,EAAyJ,CAAzJ,EAA2J,CAA3J,EAA6J,CAA7J,EAA+J,CAA/J,EAAiK,CAAjK,EAAmK,CAAnK,EAAqK,CAArK,EAAuK,CAAvK,EAAyK,CAAzK,EAA2K,CAA3K,EAA6K,CAA7K,EAA+K,CAA/K,EAAiL,CAAjL,EAAmL,CAAnL,EAAqL,CAArL,EAAuL,CAAvL,EAAyL,CAAzL,EAA2L,CAA3L,EAA6L,CAA7L,EAA+L,CAA/L,EAAiM,CAAjM,EAAmM,CAAnM,EAAqM,CAArM,EAAuM,CAAvM,EAAyM,CAAzM,EAA2M,CAA3M,EAA6M,CAA7M,EAA+M,CAA/M,EAAiN,CAAjN,EAAmN,CAAnN,EAAqN,CAArN,EAAuN,CAAvN,EAAyN,CAAzN,EAA2N,CAA3N,EAA6N,CAA7N,EAA+N,CAA/N,EAAiO,CAAjO,EAAmO,CAAnO,EAAqO,CAArO,EAAuO,CAAvO,EAAyO,CAAzO,EAA2O,CAA3O,EAA6O,CAA7O,EAA+O,CAA/O,EAAiP,CAAjP,EAAmP,CAAnP,EAAqP,CAArP,EAAuP,CAAvP,EAAyP,CAAzP,EAA2P,CAA3P,EAA6P,CAA7P,EAA+P,CAA/P,EAAiQ,CAAjQ,EAAmQ,CAAnQ,EAAqQ,CAArQ,EAAuQ,CAAvQ,EAAyQ,CAAzQ,EAA2Q,CAA3Q,EAA6Q,CAA7Q,EAA+Q,CAA/Q,EAAiR,CAAjR,EAAmR,CAAnR,EAAqR,CAArR,EAAuR,CAAvR,EAAyR,CAAzR,EAA2R,CAA3R,EAA6R,CAA7R,EAA+R,CAA/R,EAAiS,CAAjS,EAAmS,CAAnS,EAAqS,CAArS,EAAuS,CAAvS,EAAyS,CAAzS,EAA2S,CAA3S,EAA6S,CAA7S,EAA+S,CAA/S,EAAiT,CAAjT,EAAmT,CAAnT,EAAqT,CAArT,EAAuT,CAAvT,EAAyT,CAAzT,EAA2T,CAA3T,EAA6T,CAA7T,EAA+T,CAA/T,EAAiU,CAAjU,EAAmU,CAAnU,EAAqU,CAArU,EAAuU,CAAvU,EAAyU,CAAzU,EAA2U,CAA3U,EAA6U,CAA7U,EAA+U,CAA/U,EAAiV,CAAjV,EAAmV,CAAnV,EAAqV,CAArV,EAAuV,CAAvV,EAAyV,CAAzV,EAA2V,CAA3V,EAA6V,CAA7V,EAA+V,CAA/V,EAAiW,CAAjW,EAAmW,CAAnW,EAAqW,CAArW,EAAuW,CAAvW,EAAyW,CAAzW,EAA2W,CAA3W,EAA6W,CAA7W,EAA+W,CAA/W,EAAiX,CAAjX,EAAmX,CAAnX,EAAqX,CAArX,EAAuX,CAAvX,EAAyX,CAAzX,EAA2X,CAA3X,EAA6X,CAA7X,EAA+X,CAA/X,EAAiY,CAAjY,EAAmY,CAAnY,EAAqY,CAArY,EAAuY,CAAvY,EAAyY,CAAzY,EAA2Y,CAA3Y,EAA6Y,CAA7Y,EAA+Y,CAA/Y,EAAiZ,CAAjZ,EAAmZ,CAAnZ,EAAqZ,CAArZ,EAAuZ,CAAvZ,EAAyZ,CAAzZ,EAA2Z,CAA3Z,EAA6Z,CAA7Z,EAA+Z,CAA/Z,EAAia,CAAja,EAAma,CAAna,EAAqa,CAAra,EAAua,CAAva,EAAya,CAAza,EAA2a,CAA3a,EAA6a,CAA7a,EAA+a,CAA/a,EAAib,CAAjb,EAAmb,CAAnb,EAAqb,CAArb,EAAub,CAAvb,EAAyb,CAAzb,EAA2b,CAA3b,EAA6b,CAA7b,EAA+b,CAA/b,EAAic,CAAjc,EAAmc,CAAnc,EAAqc,CAArc,EAAuc,CAAvc,EAAyc,CAAzc,EAA2c,CAA3c,EAA6c,CAA7c,EAA+c,CAA/c,EAAid,CAAjd,EAAmd,CAAnd,EAAqd,CAArd,EAAud,CAAvd,EAAyd,CAAzd,EAA2d,CAA3d,EAA6d,CAA7d,EAA+d,CAA/d,EAAie,CAAje,EAAme,CAAne,EAAqe,CAAre,EAAue,CAAve,EAAye,CAAze,EAA2e,CAA3e,EAA6e,CAA7e,EAA+e,CAA/e,EAAif,CAAjf,EAAmf,CAAnf,EAAqf,CAArf,EAAuf,CAAvf,EAAyf,CAAzf,EAA2f,CAA3f,EAA6f,CAA7f,EAA+f,CAA/f,EAAig,CAAjg,EAAmg,CAAng,EAAqg,CAArg,EAAug,CAAvg,EAAyg,CAAzg,EAA2g,CAA3g,EAA6g,CAA7g,EAA+g,CAA/g,EAAih,CAAjh,EAAmh,CAAnh,EAAqh,CAArh,EAAuh,CAAvh,EAAyh,CAAzh,EAA2h,CAA3h,EAA6h,CAA7h,EAA+h,CAA/h,EAAii,CAAji,EAAmi,CAAni,EAAqi,CAAri,EAAui,CAAvi,EAAyi,CAAzi,EAA2i,CAA3i,EAA6i,CAA7i,EAA+i,CAA/i,EAAij,CAAjj,EAAmj,CAAnj,EAAqj,CAArj,EAAuj,CAAvj,EAAyj,CAAzj,EAA2j,CAA3j,EAA6j,CAA7j,EAA+j,CAA/j,EAAik,CAAjk,EAAmk,CAAnk,EAAqk,CAArk,EAAuk,CAAvk,EAAyk,CAAzk,EAA2k,CAA3k,EAA6k,CAA7k,EAA+k,CAA/k,EAAil,CAAjl,EAAml,CAAnl,EAAql,CAArl,EAAul,CAAvl,EAAyl,CAAzl,EAA2l,CAA3l,EAA6l,CAA7l,EAA+l,CAA/l,EAAim,CAAjm,EAAmm,CAAnm,EAAqm,CAArm,EAAum,CAAvm,EAAym,CAAzm,EAA2m,CAA3m,EAA6m,CAA7m,EAA+m,CAA/m,EAAin,CAAjn,EAAmn,CAAnn,EAAqn,CAArn,EAAun,CAAvn,EAAyn,CAAzn,EAA2n,CAA3n,EAA6n,CAA7n,EAA+n,CAA/n,EAAio,CAAjo,EAAmo,CAAno,EAAqo,CAAro,EAAuo,CAAvo,EAAyo,CAAzo,EAA2o,CAA3o,EAA6o,CAA7o,EAA+o,CAA/o,EAAip,CAAjp,EAAmp,CAAnp,EAAqp,CAArp,EAAup,CAAvp,EAAyp,CAAzp,EAA2p,CAA3p,EAA6p,CAA7p,EAA+p,CAA/p,EAAiq,CAAjq,EAAmq,CAAnq,EAAqq,CAArq,EAAuq,CAAvq,EAAyq,CAAzq,EAA2q,CAA3q,EAA6q,CAA7q,EAA+q,CAA/q,EAAir,CAAjr,EAAmr,CAAnr,EAAqr,CAArr,EAAur,CAAvr,EAAyr,CAAzr,EAA2r,CAA3r,EAA6r,CAA7r,EAA+r,CAA/r,EAAis,CAAjs,EAAms,CAAns,EAAqs,CAArs,EAAus,CAAvs,EAAys,CAAzs,EAA2s,CAA3s,EAA6s,CAA7s,EAA+s,CAA/s,EAAit,CAAjt,EAAmt,CAAnt,EAAqt,CAArt,EAAut,CAAvt,EAAyt,CAAzt,EAA2t,CAA3t,EAA6t,CAA7t,EAA+t,CAA/t,EAAiu,CAAju,EAAmu,CAAnu,EAAqu,CAAru,EAAuu,CAAvu,EAAyu,CAAzu,EAA2u,CAA3u,EAA6u,CAA7u,EAA+u,CAA/u,EAAiv,CAAjv,EAAmv,CAAnv,EAAqv,CAArv,EAAuv,CAAvv,EAAyv,CAAzv,EAA2v,CAA3v,EAA6v,CAA7v,EAA+v,CAA/v,EAAiw,CAAjw,EAAmw,CAAnw,EAAqw,CAArw,EAAuw,CAAvw,EAAyw,CAAzw,EAA2w,CAA3w,EAA6w,CAA7w,EAA+w,CAA/w,EAAix,CAAjx,EAAmx,CAAnx,EAAqx,CAArx,EAAux,CAAvx,EAAyx,CAAzx,EAA2x,CAA3x,EAA6x,CAA7x,EAA+x,CAA/x,EAAiy,CAAjy,EAAmy,CAAny,EAAqy,CAAry,EAAuy,CAAvy,EAAyy,CAAzy,EAA2y,CAA3y,EAA6y,CAA7y,EAA+y,CAA/y,EAAiz,CAAjz,EAAmz,CAAnz,EAAqz,CAArz,EAAuz,CAAvz,EAAyz,CAAzz,EAA2z,CAA3z,EAA6z,CAA7z,EAA+z,CAA/z,EAAi0,CAA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T,C;K;mDAC7D,iB;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,SAAzB,C;MACb,OAAO,6BAAY,KAAZ,C;K;qDA
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C,OAAO,E;MACxC,OhCgzBO,cgChzBA,gBhCgzBR,QAAQ,EgChzBwB,OlCuGJ,KEysBpB,C;K;;IgCp0BnB,6B;
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B,C;K;yDgCnkBX,mB;MACS,Q;MAAL,IAAI,eAAC,0EAAD,QAAJ,C;QAAiC,OAAO,E;MACxC,OhCiyBO,cgCj
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MAAS,uB;K;0EACW,Y;MAAQ,OAAA,gBAAY,K;K;+CAC3C,Y;MAAkC,OAAA,gBAAY,U;K;sDAC9C,mB;M
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/DyBF,K+ByvBtB,C;K;;IgCtyBnB,8B;MAMI,4C;K;+ECrIJ,qB;MAC+C,OAAA,SAAY,Y;K;yEAE3D,qB;MAC4C
,OAAA,SAAY,S;K;2EAExD,6B;MACwD,OAAA,SAAY,QAAO,MAAP,C;K;2EAEpE,kC;MACqE,OAAA,SAAY
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B;MAC+C,OAAA,SAAY,Y;K;+EAE3D,6B;MAC2D,OAAA,SAAY,WAAU,MAAV,C;K;iFAEvE,qB;MACgD,O
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B;K;;IAEpC,gC;K;;IAaA,oB;K;;ICrKA,oB;K;;IAIA,wB;K;;oFlDLA,qB;MAEqE,uCmCAtB,E;K;iGnCE/C,yB;MA
AA,kD;MAAA,4B;QACsE,mBAAY,SAAZ,C;O;KADtE,C;IAGA,iC;MAGI,OAAsB,UAAY,QAAvB,KAAmC,SA
A9C,GACe,UAAY,UAD3B,GAGI,gBAAgB,UAAhB,C;K;IAGR,qC;MAEI,YmChB2C,E;MnCiB3C,eAAe,UAAW
,W;MAC1B,OAAO,QAAS,UAAhB,C;QACU,KAAY,MAAK,QAAS,OAAd,C;MACtB,OAAO,K;K;IAGX,8C;MA
Qc,Q;MANV,IAAI,KAAM,OAAN,GAAa,UAAW,KAA5B,C;QACI,OAAO,gBAAgB,UAAhB,C;;MAEX,eAAe,U
AAW,W;MAC1B,YAAY,C;MACZ,OAAO,QAAS,UAAhB,C;QACI,MAAM,YAAN,EAAM,oBAAN,UAAiB,QA
AS,O;;MAE9B,IAAI,QAAQ,KAAM,OAAlB,C;QACI,MAAM,KAAN,IAAe,I;;MAEnB,OAAO,K;K;IAGX,yB;M
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D,mC;MAOqB,Q;MAAA,kC;MAAjB,iBAAc,CAAd,yB;QACI,sBAAK,KAAL,EAAc,KAAd,C;;K;IAIR,4B;MAM
uD,qBAAQ,4BAAR,C;K;IAEvD,6B;MAIwE,kBAAhB,0B;MAAwB,oB;MAAxB,OHR7C,W;K;IGUX,4B;MAMI,
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ArB,C;MAEA,aAAU,CAAV,MAAkB,KAAM,OAAxB,M;QACI,iBAAK,CAAL,EAAU,MAAM,CAAN,CAAV,C;;
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Ad,C;;;QAExB,IAAI,WAAW,WAAX,IAA0B,qBAAqB,UAAnD,C;UACI,iBAAc,CAAd,UAAsB,SAAtB,U;YACI,
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,OAAI,SAAJ,GAEI,SAFJ,GAII,SNwkBoB,Q;K;IMpkB5B,mC;MAEI,IAAI,QAAQ,CAAZ,C;QACI,oB;;MAEJ,OA
AO,K;K;IAGX,mC;MAEI,IAAI,QAAQ,CAAZ,C;QACI,oB;;MAEJ,OAAO,K;K;ImDzK+C,qC;MAAiC,6B;K;uDA
IvF,mB;MACI,eAAe,e;MACf,OAAO,QAAS,UAAhB,C;QACI,IAAI,OAAA,QAAS,OAAT,EAAAmB,OAAAnB,CAA

J,C;UACI,QAAS,S;UACT,OAAO,I;;;MAGf,OAAO,K;K;yDAGX,oB;MAEoB,Q;MADhB,eAAe,K;MACC,0B;MA
AhB,OAAgB,cAAhB,C;QAAgB,yB;QACZ,IAAI,eAAI,OAAJ,CAAJ,C;UAAkB,WAAW,I;;MAEjC,OAAO,Q;K;I
AG8F,sE;MAAA,qB;QAAE,OAAM,gBAAN,mB;O;K;4DAA3G,oB;MAAmE,Q;MAAD,OAA6B,YAA5B,iEAA4
B,EAAU,oDAAV,C;K;IACU,sE;MAAA,qB;QAAE,QAAO,gBAAP,mB;O;K;4DAA3G,oB;MAAmE,Q;MAAD,O
AA6B,YAA5B,iEAA4B,EAAU,oDAAV,C;K;gDAE/F,Y;MACI,eAAe,IAAK,W;MACpB,OAAO,QAAS,UAAhB,
C;QACI,QAAS,O;QACT,QAAS,S;;K;iDAIjB,Y;MACyB,OAAA,IAAK,U;K;;IC9BkB,+B;MAAiC,oC;MACjF,gB
AA8B,C;K;8CAM9B,mB;MAMI,iBAAI,SAAJ,EAAU,OAAV,C;MACA,OAAO,I;K;mDAGX,2B;MAGc,UACF,M
;MAHR,aAAa,K;MACb,cAAc,K;MACJ,0B;MAAV,OAAU,cAAV,C;QAAU,mB;QACN,kBAAI,eAAJ,EAAI,uBA
AJ,WAAc,CAAd,C;QACA,UAAU,I;;MAEd,OAAO,O;K;0CAGX,Y;MACI,yBAAY,CAAZ,EAAe,SAAf,C;K;IAG
wE,gE;MAAA,qB;QAAE,OAAM,gBAAN,mB;O;K;sDAA9E,oB;MAAkE,yBAAU,8CAAV,C;K;IACU,gE;MAAA
,qB;QAAE,QAAO,gBAAP,mB;O;K;sDAA9E,oB;MAAkE,yBAAU,8CAAV,C;K;6CAGlE,Y;MAAqD,iD;K;mDA
ErD,mB;MAAoD,0BAAQ,OAAR,KAAoB,C;K;kDAExE,mB;MACqB,Q;MAAA,6B;MAAjB,iBAAc,CAAd,yB;Q
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sBAAd,WAA+B,CAA/B,U;QACI,IAAI,wBAAI,KAAJ,GAAc,OAAd,CAAJ,C;UACI,OAAO,K;;;MAGf,OAAO,E;
K;iDAGX,Y;MAA6D,iCAAa,CAAb,C;K;yDAC7D,iB;MAAuE,sDAAiB,KAAjB,C;K;oDAGvE,8B;MAA4E,uCA
AQ,IAAR,EAAc,SAAd,EAAyB,OAAzB,C;K;wDAE5E,8B;MAII,eAAe,0BAAa,SAAb,C;MACf,YAAO,UAAU,S
AAV,I;MvDgEX,iBAAc,CAAd,UAAsB,KAAtB,U;QuD/DiB,e;QACA,iB;;K;2CAIjB,iB;MAMI,IAAI,UAAU,IAA
d,C;QAAoB,OAAO,I;MAC3B,IAAI,2BAAJ,C;QAAuB,OAAO,K;MAE9B,OAAO,oCAAa,uBAAc,IAAd,EAAoB,
KAApB,C;K;6CAGxB,Y;MAG+B,OAAA,oCAAa,yBAAgB,IAAhB,C;K;IAG5C,kD;MAAA,oB;MACI,eACsB,C;
MACtB,cAIqB,E;K;yDAErB,Y;MAAkC,sBAAQ,gB;K;sDAE1C,Y;MAEW,Q;MADP,IAAI,CAAC,cAAL,C;QAA
gB,MAAM,6B;MACtB,eAAO,mBAAP,EAAO,2BAAP,O;MACA,OAAO,wBAAI,WAAJ,C;K;wDAGX,Y;M3D/B
J,IAAI,E2DgCU,gBAAQ,E3DhClB,CAAJ,C;QACI,c2D+BwB,sE;Q3D9BxB,MAAM,6BAAsB,OAAQ,WAA9B,C;
;M2DgCF,6BAAS,WAAT,C;MACA,eAAQ,W;MACR,cAAO,E;K;;IAOqB,6D;MAHpC,oB;MAGmD,wD;MAG3C
,oCAAa,4BAAmB,KAAnB,EAA0B,WAAyB,KAAnD,C;MACb,eAAa,K;K;iEAGjB,Y;MAAsC,sBAAQ,C;K;+DA
E9C,Y;MAAgC,mB;K;8DAEhC,Y;MACI,IAAI,CAAC,kBAAL,C;QAAoB,MAAM,6B;MAE1B,eAAO,mCAAP,E
AAO,YAAP,C;MACA,OAAO,wBAAI,WAAJ,C;K;mEAGX,Y;MAAoC,sBAAQ,CAAR,I;K;+DAEpC,mB;MACI,
wBAAI,YAAJ,EAAW,OAAX,C;MACA,mC;MACA,cAAO,E;K;+DAGX,mB;M3DrEJ,IAAI,E2DsEU,gBAAQ,E3
DtElB,CAAJ,C;QACI,c2DqEwB,4E;Q3DpExB,MAAM,6BAAsB,OAAQ,WAA9B,C;;M2DqEF,wBAAyB,WAAz
B,EAAiC,OAAjC,C;K;;IAIgB,+D;MAAuF,8B;MAAtF,kB;MAA0C,4B;MAC/D,eAAyB,C;MAGrB,oCAAa,2BAA
kB,gBAAlB,EAA6B,OAA7B,EAAsC,WAAK,KAA3C,C;MACb,eAAa,UAAU,gBAAV,I;K;wDAGjB,0B;MACI,o
CAAa,4BAAmB,KAAnB,EAA0B,YAA1B,C;MAEb,WAAK,aAAI,mBAAY,KAAZ,IAAJ,EAAuB,OAAvB,C;MA
CL,mC;K;wDAGJ,iB;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,YAAzB,C;MAEb,OAAO,wBAAK,mBAAY,KAA
Z,IAAL,C;K;6DAGX,iB;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,YAAzB,C;MAEb,aAAa,WAAK,kBAAS,mBA
AY,KAAZ,IAAT,C;MAClB,mC;MACA,OAAO,M;K;wDAGX,0B;MACI,oCAAa,2BAAkB,KAAlB,EAAyB,YAA
zB,C;MAEb,OAAO,WAAK,aAAI,mBAAY,KAAZ,IAAJ,EAAuB,OAAvB,C;K;+EAGO,Y;MAAQ,mB;K;;;IC1Le,
8B;MAAiC,sB;MA4BnF,uBAAoC,I;MA2CpC,yBAA6C,I;K;IAlER,oD;MAAC,wB;MAGlC,gBAAqB,K;K;iFAHa,
Y;MAAA,yB;K;mFAKZ,Y;MAAQ,oB;K;8DAE9B,oB;MACI,eAAe,IAAK,S;MACpB,gBAAc,Q;MACd,OAAO,Q;
K;wDAGX,Y;MAA+B,iEAAc,IAAd,C;K;wDAC/B,Y;MAAkC,iEAAc,IAAd,C;K;sDAClC,iB;MAA4C,+DAAY,I
AAZ,EAAkB,KAAlB,C;K;;IAd5C,8E;MAAA,wE;MAAsC,2CAAK,KAAM,IAAX,EAAgB,KAAM,MAAtB,C;MA
AtC,Y;K;yCAkBJ,Y;MACI,YAAQ,Q;K;IAOQ,+F;MAAA,sD;MAAS,6B;K;uFACb,mB;MAAwC,MAAM,qCAA8
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kD;K;4GACH,Y;MAAkC,OAAA,0BAAc,U;K;yGAChD,Y;MAAyB,OAAA,0BAAc,OAAO,I;K;2GAC9C,Y;MAA
wB,0BAAc,S;K;;sFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MAC5B,6G;K;0FAOJ,mB;MACI,IAAI,+CAAY,OAAZ,
CAAJ,C;QACI,4BAAwB,cAAO,OAAP,C;QACxB,OAAO,I;;MAEX,OAAO,K;K;gHAGY,Y;MAAQ,OAAA,4BA
AwB,K;K;;sEA3BnE,Y;MACI,IAAI,4BAAJ,C;QACI,6F;;MA4BJ,OAAO,mC;K;kDAKf,gB;MACyB,Q;MAAA,O
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E5KxD,iBAAI,GAAJ,EAAS,KAAT,C;;K;IAQc,iG;MAAA,sD;MAAS,oC;K;yFACf,mB;MAAwC,MAAM,qCAA8
B,gCAA9B,C;K;qFAC9C,Y;MAAuB,4BAAwB,Q;K;8FAE/C,mB;MAAsD,wDAAc,OAAd,C;K;IAI3C,sH;MAAA,

kD;K;8GACH,Y;MAAkC,OAAA,0BAAc,U;K;2GAChD,Y;MAAyB,OAAA,0BAAc,OAAO,M;K;6GAC9C,Y;MA
AwB,0BAAc,S;K;;wFAL9C,Y;MACI,oBAAoB,oCAAQ,W;MAC5B,+G;K;kHAOmB,Y;MAAQ,OAAA,4BAAwB
,K;K;sFAEvD,iB;MAEI,IAAI,SAAS,KAAb,C;QAAoB,OAAO,I;MAC3B,IAAI,iCAAJ,C;QAA6B,OAAO,K;MAC
pC,OAAO,oCAAa,uBAAc,IAAd,EAAoB,KAApB,C;K;wFAGxB,Y;MAA+B,OAAA,oCAAa,yBAAgB,IAAhB,C;
K;;wEA1BxD,Y;MACI,IAAI,8BAAJ,C;QACI,iG;;MA2BJ,OAAO,qC;K;gDAGf,e;MACI,WAAW,YAAQ,W;MAC
nB,OAAO,IAAK,UAAZ,C;QACI,YAAY,IAAK,O;QACjB,QAAQ,KAAM,I;QACd,IAAI,YAAO,CAAP,CAAJ,C;
UACI,YAAY,KAAM,M;UAClB,IAAK,S;UACL,OAAO,K;;;MAGf,OAAO,I;K;;IC5HoC,8B;MAAiC,oC;K;0CAE
hF,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,IAAI,0BAAJ,C;QAAsB,OAAO,K;MAC7B,OAAO,
mCAAY,mBAAU,IAAV,EAAgB,KAAhB,C;K;4CAGvB,Y;MAG+B,OAAA,mCAAY,2BAAkB,IAAlB,C;K;;ICbT
,0B;MAAuD,8B;MAAlC,4B;K;qCAmBvD,Y;K;iDAGA,uB;K;6DAG8B,Y;MAAQ,OAAA,oBAAM,O;K;sCAC5C,
iB;MACyC,Q;MAAA,oCAAM,0BAAW,KAAX,CAAW,4D;K;sCACzC,0B;MAGW,IAAa,I;MAFpB,0BAAW,KA
AX,C;MAEoB,gBAAb,qBAAM,KAAN,C;MAAqB,qC;MAA5B,OAAO,CAAa,O1DsCjB,S0DtCI,2D;K;oCAGX,m
B;MACU,oBAAY,MAAK,OAAL,C;MAClB,qC;MACA,OAAO,I;K;sCAGX,0B;MACU,oBAAY,QAAO,mCAAo
B,KAApB,CAAoB,EAAmC,CAAnC,EAAsC,OAAtC,C;MAClB,qC;K;yCAGJ,oB;MACI,IAAI,QAAS,UAAb,C;QA
AwB,OAAO,K;MAE/B,uBAAA,oB7D8vCoB,QM7yC0C,YuD+CrD,QvD/CqD,CN6yC1C,C;M6D7vCpB,qC;MA
CA,OAAO,I;K;yCAGX,2B;MACI,mCAAoB,KAApB,C;MAEA,IAAI,UAAS,SAAb,C;QAAmB,OAAO,oBAAO,Q;QAAP
AP,C;MAC1B,IAAI,QAAS,UAAb,C;QAAwB,OAAO,K;MAE3B,IADE,KACF,e;QAAQ,OAAO,oBAAO,QAAP,
C;WACf,IAFE,KAEF,O;QAAK,uBvD3DqD,YuD2D7C,QvD3D6C,CN6yC1C,Q6DlvC6B,oB7DkvC7B,C;;;Q6Djv
CR,uBAAoC,cAA5B,oBAA4B,EAAV,CAAU,EAAP,KAAO,CAAY,QvD5DE,YuD4DK,QvD5DL,CuD4DF,EAA
4C,cAAN,oBAAM,EAAY,KAAZ,EAAmB,SAAnB,CAA5C,C;;MAG5D,qC;MACA,OAAO,I;K;2CAGX,iB;MACI
,0BAAW,KAAX,C;MACA,qC;MACA,OAAW,UAAS,sBAAb,GACG,oBAAY,MADf,GAGG,oBAAY,QAAO,KA
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;;MAGf,OAAO,K;K;8CAGX,8B;MACI,qC;MACM,oBAAY,QAAO,SAAP,EAAkB,UAAlB,CAAkB,SAAlB,EAAkC,IAAlC,CAAkC,C;K;gC
AGtB,Y;MACI,uBpBhGuC,E;MoBiGvC,qC;K;wCAIJ,mB;MAA+C,oCAAM,QAAN,GAAgB,oBAAO,EAAP,CAAO,QAAP,EAAO,OAAP,C;K;4
CAErD,mB;MAAmD,OAAM,YAAN,oBAAM,EAAY,OAAZ,CAAoB,C;K;mCAEzD,Y;MAA0B,qBAAc,cAAd,oBAAc,EAAd,CAAc,OAAd,C;K;kCA
C1B,Y;MAAsC,OAAA,EAAS,MAAT,EAAgB,MAAhB,CAAgB,OAAhB,oBAAgB,EAAhB,CAAgB,C;K;+CAGrD,iB;MACI,oCAAa,kCAAY,SAAZ,CAAY,C;MA
DoB,Y;K;wDAIrC,iB;MACI,oCAAa,mCAA0B,SAA1B,CAA0B,C;MAC1B,Y;MAAA,kD;MAAG,8B,sBpBPBP
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ALtD,Y;K;IAOA,2C;MAAA,mD;MAGqD,sBvDhBa,YuDgBR,QvDhBQ,CuDgBb,C;MAHrD,Y;K;I3DfJ,sD;MAA
sG,4C;K;IAAtG,6CACI,gB;MAAwC,+BAAW,CAAX,EAAc,CAAd,EAAiB,CAAjB,C;K;IAD5C,kF;I4DNA,0C;MACI,IAAI,6BA
AJ,C;QACU,KAAY,MAAK,UAAL,C;;;QAElB,UAAU,KAAV,EAAwC,CAAxC,EAAiD,CAAjD,EAAqD,KAArD,EAA4D,CAA5D,EAAiE,KAAjE,C;;K;IAMpB,kD;MAAgB,uB;QAAgB,OAAA,kBAAO,kBAAP,C;MAAO,E;;K;IAIvC

ArB,GAAgC,M;MAG7C,gBAAgB,K;MAChB,iBAAiB,SAAS,CAAT,I;MACjB,aAAU,KAAV,OAAiB,GAAjB,M;
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C;UAEjB,IAAI,UAAW,SAAQ,SAAR,EAAmB,UAAnB,CAAX,IAA6C,CAAjD,C;YACI,OAAO,CAAP,IAAY,S;Y
ACZ,6B;;;YAEA,OAAO,CAAP,IAAY,U;YACZ,+B;;;cAGR,iBAAa,MAAb,C;UACI,OAAO,CAAP,IAAY,KAAK,
SAAL,C;UACZ,6B;;;UAGA,OAAO,CAAP,IAAY,MAAM,UAAN,C;UACZ,+B;;;MAMZ,OAAO,M;K;IC/FX,4C;
MAKoB,UACM,M;MAFtB,aAAa,C;MACb,wBAAgB,SAAhB,gB;QAAgB,cAAA,SAAhB,M;QAEQ,oB;UAAmB,
U;;UACnB,IjBHiC,MAAa,YiBGnC,OjBHmC,CiBG9C,C;YAAwD,iCAAhC,OAAgC,C;;gBAExD,uC;YAAmC,2B
AAR,OAAQ,C;eACnC,wC;YAAmC,2BAAR,OAAQ,C;eACnC,sC;YAAmC,2BAAR,OAAQ,C;eACnC,uC;YAAm
C,2BAAR,OAAQ,C;;YAEA,kBAAR,OAAQ,C;;QATvC,wB;QAYA,SAAS,MAAK,MAAL,QAAc,WAAd,I;;MAE
b,OAAO,M;K;;;ICRP,uC;MAAA,2C;K;2DACI,0B;MAA2D,sBAAU,MAAV,C;K;gEAE3D,iB;MAA6C,Q;MAAA,
wEAAqB,C;K;;;IAHtE,mD;MAAA,kD;QAAA,iC;;MAAA,2C;K;;;MCuBA,iC;MAKA,8B;MA8CA,0BAAmE,I;;IA
1EnE,kC;MAAA,oB;MAA+B,6B;K;2CAE3B,mB;MAAyD,MAAM,qCAA8B,iCAA9B,C;K;uCAC/D,Y;MACI,W
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CI,IAAI,oBAAS,OAAT,CAAJ,C;QACI,WAAa,cAAO,OAAQ,IAAf,C;QACb,OAAO,I;;MAEX,OAAO,K;K;oEAG
Y,Y;MAAQ,OAAA,WAAa,K;K;;8BA8ChD,Y;MACI,0BAAY,Q;K;0CAIhB,e;MAAmD,OAAA,0BAAY,gBAAS,
GAAT,C;K;4CAE/D,iB;MAAmE,gBAAZ,0B;MAAY,c;;Q5D+3CnD,Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAA
qC,aAAO,K;UAAP,e;;QACrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,I4D/3CmD,uBAAS,gB5D+3C9
C,O4D/3CwD,MAAV,Q5D+3C5D,C;YAAwB,aAAO,I;YAAP,e;;;QAC9C,aAAO,K;;;M4Dh4CgD,iB;K;8DAInD,
Y;MACI,IAAI,+BAAJ,C;QACI,0BAAW,qB;;MAEf,OAAO,sC;K;uCAGf,Y;MAAiF,iC;K;kCAEjF,e;MAA+C,OA
AA,0BAAY,WAAI,GAAJ,C;K;oCAE3D,sB;MAAgD,OAAA,0BAAY,aAAI,GAAJ,EAAS,KAAT,C;K;qCAE5D,e;
MAAyC,OAAA,0BAAY,cAAO,GAAP,C;K;2DAEvB,Y;MAAQ,OAAA,0BAAY,K;K;;IA7DlD,0C;MAAA,iD;MA
AuD,8B;MArC3D,mB;MAsCQ,8BAAmB,W;MACnB,2BAAgB,WAAY,S;MAFhC,Y;K;IAKA,+B;MAAA,iD;MA
GuB,aAAK,kEAAL,Q;MAHvB,Y;K;IAKA,4D;MASyC,0B;QAAA,aAAoB,G;MAT7D,iD;MASqE,qB;MlElCrE,I
AAI,EkEoCQ,mBAAmB,ClEpC3B,CAAJ,C;QACI,ckEmCgC,+C;QlElChC,MAAM,gCAAyB,OAAQ,WAAjC,C;;
MAFV,IAAI,EkEqCQ,cAAc,ClErCtB,CAAJ,C;QACI,gBkEoC2B,yC;QlEnC3B,MAAM,gCAAyB,SAAQ,WAAjC,
C;;MkEuBV,Y;K;IAeA,gD;MAAA,iD;MAA2C,eAAK,eAAL,EAAsB,GAAtB,Q;MAA3C,Y;K;IAGA,yC;MAAA,i
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AA2E,wB;MAAlF,O9DrCO,S;K;;M+DnEP,yB;;kCA0CA,mB;MACI,UAAU,kBAAI,aAAI,OAAJ,EAAa,IAAb,C;
MACd,OAAO,W;K;8BAGX,Y;MACI,kBAAI,Q;K;uCAOR,mB;MAA6D,OAAA,kBAAI,mBAAY,OAAZ,C;K;gC
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B;MAVxB,mB;MAWQ,sBAAM,gB;MAJV,Y;K;IAOA,yC;MAAA,iD;MAG2C,8B;MAjB/C,mB;MAkBQ,sBAAM
,eAAgB,QAAS,KAAzB,C;MACN,qBAAO,QAAP,C;MALJ,Y;K;IAQA,4D;MASyC,0B;QAAA,aAAoB,G;MAT7D
,iD;MASkE,8B;MA/BtE,mB;MAgCQ,sBAAM,eAAgB,eAAhB,EAAiC,UAAjC,C;MAVV,Y;K;IAaA,gD;MAAA,i
D;MAA2C,eAAK,eAAL,EAAsB,GAAtB,Q;MAA3C,Y;K;IAEA,oC;MAAA,iD;MAM0C,8B;MA3C9C,mB;MA4C
Q,sBAAW,G;MAPf,Y;K;IAmCJ,+B;MAKuC,gBAA5B,eAAQ,eAAR,C;MAAoC,6B;MAA3C,O/DLO,S;K;IgEzD6
B,uC;MAAC,kC;MAErC,oBAAkC,kB;MAClC,sBAAyB,C;K;2EAHY,Y;MAAA,8B;K;uEAGrC,Y;MAAA,0B;K,
OAAA,gB;MAAA,0B;K;gDAGA,sB;MACI,eAAe,aAAS,qBAAY,GAAZ,C;MACxB,mBAAmB,6BAAsB,QAAtB,
C;MACnB,IAAI,oBAAJ,C;QAEI,kBAAW,QAAX,IAAuB,mCAAY,GAAZ,EAAAiB,KAAjB,C;;;QAEvB,IAAI,6BA
AJ,C;UAEI,YAA+B,Y;UAC/B,IAAI,aAAS,gBAAO,KAAM,IAAb,EAAkB,GAAlB,CAAb,C;YACI,OAAO,KAA
M,gBAAS,KAAT,C;;;YAEb,kBAAW,QAAX,IAAuB,CAAQ,KAAR,EAAe,mCAAY,GAAZ,EAAAiB,KAAjB,CAA
f,C;YACvB,6B;YACA,OAAO,I;;;;UAIX,YAAuC,Y;UACvC,cAAkB,wBAAN,KAAM,EAAAiB,GAAjB,C;UAClB,I
AAI,eAAJ,C;YACI,OAAO,OAAM,gBAAS,KAAT,C;;UAEX,KAAY,MAAK,mCAAY,GAAZ,EAAAiB,KAAjB,CA
AL,C;;;MAG1B,6B;MAEA,OAAO,I;K;iDAGX,e;MAEuB,Q;MADnB,eAAe,aAAS,qBAAY,GAAZ,C;MACL,oCA
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ChC,IAAI,aAAS,gBAAO,KAAM,IAAb,EAAkB,GAAlB,CAAb,C;UpBzDR,OoB0D6B,iBpB1DvB,CoB0DmC,Qp
B1DnC,C;UoB2DM,6B;UACA,OAAO,KAAM,M;;;UAEb,OAAO,I;;;;QAGX,YAAuC,Y;QACvC,8BAAc,KAAd,i
B;UACI,cAAY,MAAM,KAAN,C;UACZ,IAAI,aAAS,gBAAO,GAAP,EAAY,OAAM,IAAlB,CAAb,C;YACI,IAAI,

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;;coB2EoB,KAAY,QAAO,KAAP,EAAc,CAAd,C;;YAEtB,6B;YAEA,OAAO,OAAM,M;;;;MAIzB,OAAO,I;K;0C
AGX,Y;MACI,oBAAa,kB;MACb,YAAO,C;K;mDAGX,e;MAAyC,uBAAS,GAAT,S;K;8CAEzC,e;MAA+B,Q;M
AAA,+BAAS,GAAT,8B;K;+CAE/B,e;MACuB,Q;MAAA,oCAAsB,aAAS,qBAAY,GAAZ,CAA/B,C;MAAA,iB;Q
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h7BK,aAAS,gBjFg7BA,OiFh7Ba,IAAb,MjFg7Bd,C;YAAwB,qBAAO,O;YAAP,uB;;;QAC9C,qBAAO,I;;;MiFj7B
H,yB;K;IAIO,8E;MAAA,wD;MACH,aAAY,E;MAEZ,YAA0B,MAAa,MAAK,qCAAL,C;MACvC,gBAAe,E;MAE
f,oBAA4B,I;MAC5B,eAAc,K;MACd,iBAAgB,E;MAChB,iBAAqC,I;K;yEAErC,Y;MACI,IAAI,6BAAwB,YAA5
B,C;QACI,gBAAqB,iBAAqD,O;QAC1E,IAAI,4DAAc,SAAlB,C;UACI,OAAO,C;;MAGf,IAAI,yDAAa,SAAK,O
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EP,oBAAe,I;QACf,OAAO,C;;K;mEAIf,Y;MACI,IAAI,eAAS,EAAb,C;QACI,aAAQ,oB;MACZ,OAAO,eAAS,C;K
;gEAGpB,Y;MAEoB,Q;MADhB,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACN,IAAI,YAAJ,C;QACZ,yBAAq
D,cAArD,C;;;QAEa,OAAb,iB;;MAHJ,oB;MAKA,iBAAiB,S;MACjB,aAAQ,E;MACR,OAAO,S;K;kEAGX,Y;Mp
E/CR,IoEgDyB,cpEhDrB,QAAJ,C;QACI,cAhByB,0B;QAiBzB,MAAM,6BAAsB,OAAQ,WAA9B,C;;MoE+CE,6B
AAyB,cAAO,6BAAY,IAAnB,C;MACzB,iBAAY,I;MAEZ,uC;K;;6CAtDZ,Y;MAEI,2D;K;4DAyDJ,oB;MACI,mB
AAmB,kBAAW,QAAX,C;MACnB,OAAW,iBAAiB,SAArB,GAAgC,IAAhC,GAA0C,Y;K;;;;wCCtKrD,Y;MACI,a
AAR,MAAM,OAAe,CAAP,IAAO,C;MAEb,OAAO,KAAP,IAAgB,C;MrBXpB,OqBYqB,MrBZf,CqBYuB,KrBZv
B,C;MqBaF,OAAO,M;K;;ICNuB,qC;MAAC,kC;MAEnC,oBAAkC,kB;MAClC,sBAAyB,C;K;yEAHU,Y;MAAA,
8B;K;qEAGnC,Y;MAAA,0B;K,OAAA,gB;MAAA,0B;K;iDAWA,e;MACI,IAAI,0BAAJ,C;QAAoB,OAAO,K;MA
C3B,OAAO,kBAAW,GAAX,MAAoB,S;K;4CAG/B,e;MACI,IAAI,0BAAJ,C;QAAoB,OAAO,I;MAC3B,YAAY,k
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,uBtEXR,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCAAyB,OAAQ,WAAjC,C;;MsEUN,eAAe,kBAAW,GAAX,C;
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+CAIf,e;MACI,IAAI,0BAAJ,C;QAAoB,OAAO,I;MAC3B,YAAY,kBAAW,GAAX,C;MACZ,IAAI,UAAU,SAAd,
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C,kBAA4B,qBAAL,WAAK,C;MAC5B,iBAA+B,I;K;iEAE/B,Y;MAAkC,OAAA,eAAS,U;K;8DAE3C,Y;MAIuB,g
B;MAHnB,UAU,eAAS,O;MACnB,iBAAU,G;MAES,+E;MAAnB,OAAO,iD;K;gEAGX,Y;MAEkC,UAA9B,M;
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,EAAkB,KAAlB,C;K;;gDAR5D,e;MAAsD,iE;K;;;MCNtD,sBAOsC,I;MA6CtC,yB;;IArH8B,8C;MAAqB,0CAAqC
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X,Y;MvE8BR,IAAI,EuE7Bc,eAAQ,IvE6BtB,CAAJ,C;QACI,cAdW,e;QAeX,MAAM,6BAAsB,OAAQ,WAA9B,C;
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EgBN,YAAY,mB;MACZ,IAAI,SAAS,IAAb,C;QACI,sBAAO,S;QACP,yBAAO,S;QACP,yBAAO,S;;;QAGK,YA
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EI,sBAAO,sB;;QAEX,qDAAc,sB;QACd,qDAAc,sB;;MAElB,yBAAO,I;MACP,yBAAO,I;K;oCA6CX,Y;MACI,kB
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S;K;;;;kFqEnEX,uB;MAKI,OAAO,O;K;ICdX,sB;K;mCACI,Y;MACI,mBAAM,IAAN,C;K;2CAGJ,mB;MACI,mB
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K;;IAIjB,sC;MAE4C,yB;K;yDACxC,mB;MACI,QAwByC,OAxB1B,OAwB0B,C;MAvBzC,QAAU,eAAF,CAAE,
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;UAAgB,6B;UAAM,IyE/rB4C,4BzE+rB9B,SyE/rB8B,CzE+rB5C,C;YAAwB,WAAY,WAAI,SAAJ,C;;QyE/rBtD,s
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OAArB,C;K;IAElC,uC;MAAC,wB;K;iDAC/B,iB;MACI,eAAQ,KAAR,C;K;8CAGJ,Y;MAAyC,iCAAuB,cAAvB,
M;K;;ICCO,6C;MAAA,8B;MAAS,uB;K;0EAClClC,Y;MAAQ,OAAA,gBAAY,O;K;mDAE3C,iB;MACI,IADoC,KA
CpC,IAAG,CAAH,IADoC,KACpC,IAAM,sBAAN,C;QAD8B,OACX,gBAAY,MAAK,KAAL,C;;;QACvB,MAA
M,8BAA0B,WAAQ,KAAR,6BAAmC,sBAAnC,MAA1B,C;K;;IARtB,8B;MAGoD,4C;K;ICNpD,0B;MAEI,OAAO
,yBAAP,C;QACI,sBAAY,mCAAZ,C;;K;IAIR,qC;MAMI,sBAAY,sCAAgB,gBAAe,IAAf,CAA5B,C;MACA,OAA
O,S;K;+EChBX,qB;MAI8C,gB;K;iFAE9C,qB;MAIsE,OAAK,S;K;kFAE3E,qB;MAMyE,gB;K;IAEzE,6B;MAiBa,
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C;MADhC,Y;K;IAM+B,mC;;MAA6E,Q;MAAA,+BAAS,I;sCAAlB,O,2DAAA,O;;;;K;;;;;;;;IACnG,+B;MAAA,m
D;MAAuB,sBAAK,IAAL,EAAW,IAAX,C;MACC,4BAAY,MAAK,KAAL,EAAW,IAAX,EAAiB,IAAjB,C;MAD
pC,Y;K;IAIA,0C;MAAA,mD;MAAuC,sBAAK,OAAL,EAAc,IAAd,C;MACf,4BAAY,MAAK,KAAL,EAAW,OA
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UI,IAAK,QAAL,SAAK,CAAL,IAAmB,QAAH,EAAG,CAAnB,C;QADuD,OACzB,wCAAO,I;WACrC,WAAM,S
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xD,gC;MAYI,uB;QAAW,MAAM,gCAAyB,yBAAzB,C;WACjB,oD;QAF2C,+B;WAG3C,oD;QAH2C,+B;;QAAA
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C;K;IC/CI,8D;MACpB,sC;MACA,sC;MACA,kD;K;mEAFA,Y;MAAA,gC;K;kEACA,Y;MAAA,+B;K;yEACA,Y;
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AAQ,OAAiB,gB;K;+FI3Q/F,gB;MACkC,oB;QAAA,OAAgB,E;MAC9C,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;
MACZ,OAAO,C;K;+FAiBX,8B;MACkC,4B;QAAA,eAAqB,S;MAAW,oB;QAAA,OAAgB,E;MAC9E,QAAQ,E;
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KAAZ,C;K;+GCiC7D,sJ;MACsC,mB;QAAA,MA6GuD,M;;MA7GG,oB;QAAA,OAAgB,E;MAAI,oB;QAAA,OA
AgB,E;MAAI,mB;QAAA,MAAe,E;MAAI,qB;QAAA,QAAiB,S;MAAW,oB;QAAA,OAAgB,S;MAAW,qB;QAA
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,K;MAAO,sB;QAAA,SAAmB,K;MAAO,oB;QAAA,OAAa,I;MAAM,uB;QAAA,UAAsC,E;MAC/gB,QAAQ,E;M
ACR,EAAE,KAAF,IAAW,G;MACX,EAAE,MAAF,IAAY,I;MACZ,EAAE,MAAF,IAAY,I;MACZ,EAAE,KAAF,I
AAW,G;MACX,EAAE,OAAF,IAAa,K;MACb,EAAE,MAAF,IAAY,I;MACZ,EAAE,OAAF,IAAa,K;MACb,EAA
E,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,WAAF,IAAiB,S;MACjB,EAAE,UAAF,IAAgB,Q;M
AChB,EAAE,QAAF,IAAc,M;MACd,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,oBAAF,IAA0B,kB;MAC1B,EAAE,
QAAF,IAAc,M;MACd,EAAE,MAAF,IAAY,I;MACZ,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;6GAeX,+B;MAC
sE,oB;QAAA,OAAgB,S;MAClF,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MACb,E
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E,KAAF,IAAW,G;MACX,OAAO,C;K;mHA2BX,+D;MACqE,sB;QAAA,SAAkB,E;MAAI,uB;QAAA,UAAoB,K;
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,IAAgB,Q;MAChB,OAAO,C;K;iGASwE,qB;MAAQ,OAAU,S;K;6FAEnB,qB;MAAQ,OAAS,Q;K;+FAEhB,qB;M
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K;K;yGCvJ3F,uB;MACsC,qB;QAAA,QAAiB,S;MAAW,oB;QAAA,OP40MW,S;;MO30MzE,QAAQ,E;MACR,E
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AQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,QAAF,IAAc,M;MACd,EAAE,aAAF,IAAmB,W;MACnB,EA
AE,QAAF,IAAc,M;MACd,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;M
AClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;uGA2DX,qC;MACqC,mC;QAAA,sBAAgC,K;MAAO,oB;QA
AA,OA2UD,Q;;MA1UvE,QAAQ,E;MACR,EAAE,qBAAF,IAA2B,mB;MAC3B,EAAE,MAAF,IAAY,I;MACZ,O
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,K;MAChH,QAAQ,E;MACR,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB
,Q;MAChB,OAAO,C;K;yGA0BX,2B;MAEI,QAAQ,E;MACR,EAAE,QAAF,IAAc,M;MACd,EAAE,SAAF,IAAe,
O;MACf,OAAO,C;K;+FAgCX,sE;MACoD,wB;QAAA,WAAoB,I;MAAM,wB;QAAA,WAAqB,K;MAAO,uB;QA
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AF,IAAe,O;MACf,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,UAAF,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MA
Cf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MAChB,OAAO,C;K;6GAyBX,0D;MAC2D,sB;QAA
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Cd,EAAE,OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IA
AgB,Q;MAChB,OAAO,C;K;qGA+BX,6D;MACoC,4B;QAAA,eAAyB,K;MAAO,4B;QAAA,eAAyB,K;MAAO,0
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BX,4C;MACsC,oB;QAAA,OAAgB,S;MAAW,uB;QAAA,UAAoB,S;MAAW,wB;QAAA,WAAsB,S;MAAW,uB;Q
AAA,UAA8B,S;MAC3J,QAAQ,E;MACR,EAAE,MAAF,IAAY,I;MACZ,EAAE,SAAF,IAAe,O;MACf,EAAE,UA
AF,IAAgB,Q;MAChB,EAAE,SAAF,IAAe,O;MACf,OAAO,C;K;+FAiCmE,qB;MAAQ,OAAa,Y;K;6FAEtB,qB;M
AAQ,OAAY,W;K;+FAEnB,qB;MAAQ,OAAa,Y;K;6FAEtB,qB;MAAQ,OAAY,W;K;6FAEpB,qB;MAAQ,OAAY,
W;K;6FAQtC,qB;MAAQ,OAAY,W;K;6FAEpB,qB;MAAQ,OAAY,W;K;uFAEvB,qB;MAAQ,OAAS,Q;K;qFAEn
B,qB;MAAQ,OAAO,M;K;uFAQX,qB;MAAQ,OAAS,Q;K;yFAEjB,qB;MAAQ,OAAS,Q;K;qGAEX,qB;MAAQ,O
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B,C;MAAG,qB;QAAA,QAAiB,C;MAAG,uB;QAAA,UAAoB,K;MAAO,0B;QAAA,aAAuB,K;MAAO,wB;QAAA
,WAAqB,K;MAC3L,QAAQ,E;MACR,EAAE,kBAAF,IAAwB,gB;MACxB,EAAE,QAAF,IAAc,M;MACd,EAAE,
OAAF,IAAa,K;MACb,EAAE,SAAF,IAAe,O;MACf,EAAE,YAAF,IAAkB,U;MAClB,EAAE,UAAF,IAAgB,Q;MA
ChB,OAAO,C;K;mFAS8E,qB;MAAQ,OAAG,E;K;+FAEL,qB;MAAQ,OAAc,a;K;iFAE7B,qB;MAAQ,OAAO,M;
K;yFAEX,qB;MAAQ,OAAW,U;K;+EAEvB,qB;MAAQ,OAAO,M;K;+EAEf,qB;MAAQ,OAAO,M;K;ICvHnE,6B;
MAAC,qB;QAAA,8C;MAAA,kB;K;IACjC,2C;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,yC;MAAA,4C;O;MAKI,
0E;MAEA,sE;K;;IAFA,kD;MAAA,+B;MAAA,0C;K;;IAEA,gD;MAAA,+B;MAAA,wC;K;;IAPJ,qC;MAAA,yF;K;
;IAAA,0C;MAAA,a;aAAA,S;UAAA,+C;aAAA,O;UAAA,6C;gBAAA,8D;;K;;;IAwBmC,sC;MAAnC,8B;K;;IAMq
C,sC;MAArC,8B;K;;ICzDJ,iC;K;;ICMA,4B;K;;ICCA,qC;K;;IA0BA,+B;K;;ICvBgD,8B;K;kDAI5C,mB;MAA6D,c;
;Q9Hy8C7C,Q;QADhB,IAAI,mCAAsB,cAA1B,C;UAAqC,aAAO,K;UAAP,e;;QACrB,sB;QAAhB,OAAgB,cAAh
B,C;UAAgB,2B;UAAM,I8Hz8C6C,O9Hy8C/B,S8Hz8C+B,U9Hy8C7C,C;YAAwB,aAAO,I;YAAP,e;;;QAC9C,aA
AO,K;;;M8H18CsD,iB;K;uDAE7D,oB;MACa,c;;Q9Hi7CG,Q;QADhB,IAAI,c8Hh7CA,Q9Hg7CA,iB8Hh7CA,Q9
Hg7CsB,UAA1B,C;UAAqC,aAAO,I;UAAP,e;;QACrB,O8Hj7CZ,Q9Hi7CY,W;QAAhB,OAAgB,cAAhB,C;UAAg
B,yB;UAAM,IAAI,C8Hj7CP,oB9Hi7CkB,O8Hj7ClB,C9Hi7CG,C;YAAyB,aAAO,K;YAAP,e;;;QAC/C,aAAO,I;;;
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BAAjB,GAA6C,SAAH,EAAG,C;O;K;4CADjD,Y;MAAkC,4BAAa,IAAb,EAAmB,GAAnB,EAAwB,GAAxB,kBA
A6B,wCAA7B,C;K;2CAIlC,Y;MAI4C,uBAAgB,IAAhB,C;K;mDAE5C,iB;MAI4D,yBAAgB,IAAhB,EAAsB,KA
AtB,C;K;;IC/BhE,8B;MAAA,e;MAAA,iB;MAAA,uB;K;IAAA,4B;MAAA,+B;O;MACI,4C;MACA,kD;MACA,0C
;MACA,8C;K;;IAHA,mC;MAAA,kB;MAAA,2B;K;;IACA,sC;MAAA,kB;MAAA,8B;K;;IACA,kC;MAAA,kB;M
AAA,0B;K;;IACA,oC;MAAA,kB;MAAA,4B;K;;IAJJ,wB;MAAA,sH;K;;IAAA,6B;MAAA,a;aAAA,O;UAAA,gC;
aAAA,U;UAAA,mC;aAAA,M;UAAA,+B;aAAA,Q;UAAA,iC;gBAAA,6D;;K;;IAOA,4B;MAAK,mD;MACA,2BA
A4B,I;K;yCAE5B,Y;MAEiB,IAAN,I;MrIUX,IAAI,EqIXQ,mDrIWR,CAAJ,C;QACI,cAda,qB;QAeb,MAAM,gCA
AyB,OAAQ,WAAjC,C;;MqIZC,QAAM,oBAAN,M;aACH,M;UAAc,Y;UAAd,K;aACA,O;UAAe,W;UAAf,K;gBA
CQ,wC;UAHL,K;;MAAP,W;K;sCAOJ,Y;MAIW,Q;MAHP,IAAI,CAAC,cAAL,C;QAAgB,MAAM,6B;MACtB,mD;MAEA,OAAO,2F;K;4DAGX,Y;MACI,iD;MACA,kB;MACA,OAAO,kD;K;+CAeX,iB;MAII,2BAAY,K;MAAZ,gC;
,gD;K;sCAGJ,Y;MAII,+C;K;;IClDkC,wB;MAoFtC,oC;MApFgE,6B;K;sCAIhE,Y;MAAuC,0C;K;2CAEvC,mB;M
AAwD,uB;;QhImR3C,Q;QADb,YAAY,C;QACC,sB;QAAb,OAAa,cAAb,C;UAAa,sB;UACT,IgIpRmE,OhIoRrD,I
gIpRqD,UhIoRnE,C;YACI,sBAAO,K;YAAP,wB;;UACJ,qB;;QAEJ,sBAAO,E;;;MgIxRiD,0B;K;+CAExD,mB;MA
A4D,sB;;QhI4S5D,eAAoB,0BAAa,IAAb,C;QACpB,OAAO,QAAS,cAAhB,C;UACI,IgI9SsE,OhI8SxD,QAAS,Wg
I9S+C,UhI8StE,C;YACI,qBAAO,QAAS,Y;YAAhB,uB;;;QAGR,MgIlTqD,yB;K;0CAE5D,Y;MAA+C,+C
,+CAAiB,CAAjB,C;K;kDAE/C,iB;MAAyD,+CAAiB,KAAjB,C;K;6CAEzD,mB;MAA8D,gCAAQ,IAAR,EAAc,EAAd,
EAAyB,OAAzB,C;K;IAAA,6B;MAAA,gC;MAAA,kB;MAAA,wB;MAAA,+B;MAAA,kB;MAAA,wB;MAAA,+B;MAAA,
kB;MAAA,wB;MAAA,+B;MAAA,kB;MAAA,wB;MAAA,+B;MAAA,kB;MAAA,wB;MAAA,+B;MAAA,kB;MAAA,wB;MAA
A,+B;MAAA,kB;MAAA,wB;MAAA,+B;MAAA,kB;MAAA,wB;MAAA,+B;MAAA,kB;MAAA,wB;MAAA,+B;MAAA,kB;MA
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;MAAA,+B;MAAA,kB;MAAA,wB;MAAA,+B

M,6B;MACX,iE;MAAX,OAAO,+B;K;;IAO0B,sD;MAHzC,oB;MAGwD,iD;MAGhD,gEAAmB,KAAnB,EAA0B,
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MACI,IAAI,CAAC,kBAAL,C;QAAoB,MAAM,6B;MAC1B,OAAO,yBAAI,mCAAJ,EAAI,YAAJ,E;K;4DAGX,Y;
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C;QACI,MAAM,8BAA0B,YAAS,KAAT,gBAAuB,IAAjD,C;;K;kEAId,uB;MACI,IAAI,QAAQ,CAAR,IAAa,QA
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IAAiB,UAAU,IAA/B,C;QACI,MAAM,8BAA0B,gBAAa,SAAb,mBAAkC,OAAlC,gBAAkD,IAA5E,C;;MAEV,IA
AI,YAAY,OAAhB,C;QACI,MAAM,gCAAyB,gBAAa,SAAb,oBAAmC,OAA5D,C;;K;kEAId,sC;MACI,IAAI,aAA
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CsB,M;MAFhC,iBAAe,C;MACL,mB;MAAV,OAAU,cAAV,C;QAAU,mB;QACN,aAAW,MAAK,UAAL,SAAiB,
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,C;QAA0B,OAAO,K;MAEjC,oBAAoB,KAAM,W;MACb,mB;MAAb,OAAa,cAAb,C;QAAa,sB;QACT,gBAAgB,
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4B;;MAAA,sC;K;;ICnFwC,uB;MAyHxC,mC;MAzCA,uBAC6B,I;MAmC7B,yBACsC,I;K;8CAnHtC,e;MACI,OA
AO,6BAAc,GAAd,S;K;gDAGX,iB;MAAwE,gBAAR,Y;MAAQ,c;;QjIi8CxD,Q;QADhB,IAAI,wCAAsB,mBAA1B
,C;UAAqC,aAAO,K;UAAP,e;;QACrB,2B;QAAhB,OAAgB,cAAhB,C;UAAgB,yB;UAAM,IiIj8CwD,OjIi8C1C,OiI
j8C6C,MAAH,QjIi8CxD,C;YAAwB,aAAO,I;YAAP,e;;;QAC9C,aAAO,K;;;MiIl8CyD,iB;K;kDAEhE,iB;MAEI,IA
AI,gCAAJ,C;QAA+B,OAAO,K;MACtC,UAAU,KAAM,I;MAChB,YAAY,KAAM,M;M7IgKO,Q;M6I/JzB,e7I+J4
C,CAAnB,mDAAmB,Y6I/JzB,G7I+JyB,C;M6I7J5C,IAAI,eAAS,QAAT,CAAJ,C;QACI,OAAO,K;;MAIP,6B;MA
AA,W;Q7IyKqB,U;Q6IzKD,U7IyKoB,CAAnB,uDAAmB,oB6IzKP,G7IyKO,C;;M6IzK5C,W;QACI,OAAO,K;;M
AGX,OAAO,I;K;mCAIX,iB;MAMI,IAAI,UAAU,IAAd,C;QAAoB,OAAO,I;MAC3B,IAAI,0BAAJ,C;QAAyB,OA
AO,K;MAChC,IAAI,cAAQ,KAAM,KAAlB,C;QAAwB,OAAO,K;MAEV,gBAAd,KAAM,Q;MAAQ,c;;QjI44CT,
Q;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,I;UAAP,e;;QACrB,2B;QAAhB,OAAgB,cAAhB,C;UAAg
B,yB;UAAM,IAAI,CiI54CK,2BjI44CM,OiI54CN,CjI44CT,C;YAAyB,aAAO,K;YAAP,e;;;QAC/C,aAAO,I;;;MiI74
CH,iB;K;sCAGJ,e;MAAwC,Q;MAAA,4CAAc,GAAd,8B;K;qCAGxC,Y;MAK+B,OAAQ,SAAR,YAAQ,C;K;oCA
EvC,Y;MAAkC,qBAAQ,C;K;+DACnB,Y;MAAQ,OAAA,YAAQ,K;K;IAWnB,0E;MAAA,wC;MAAS,sB;K;8EAC
b,mB;MAAsD,+CAAY,OAAZ,C;K;IAI3C,sG;MAAA,kD;K;8FACH,Y;MAAkC,OAAA,0BAAc,U;K;2FAChD,Y;
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J,C;QACW,QAAM,cAAN,C;eACH,C;YAAK,iB;YAAL,K;eACA,C;YAAK,aAAU,8BAAJ,GAAAkB,sBAAK,CAA
L,CAAlB,GAA+B,oBAAW,OAAhD,C;YAAL,K;kBACQ,0BAAM,qBAAoB,YAAY,cAAZ,CAApB,CAAN,C;YA
HL,K;;QAAP,W;;MAMJ,OAAoC,oBAA7B,mBAAM,oBAAN,CAA6B,C;K;IAGxC,yC;MAIwB,SAApB,WAAoB,
Y;MAApB,kB;K;IAEJ,4B;MAM6D,QAAM,gBAAN,C;aACzD,C;UADyD,OACpD,U;aACL,C;UAFyD,OAEpD,M
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C;MAIwB,OAApB,WAAoB,Y;MAApB,kB;K;IAEJ,4B;MAM4D,OAA6B,oBAA7B,mBAAM,oBAAN,CAA6B,C;
K;IAEzF,yC;MAIwB,SAApB,WAAoB,Y;MAApB,kB;K;IAEJ,4B;MAMqD,QAAM,cAAN,C;aACjD,C;UADiD,O
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;MAKI,WAAoB,0B;MAApB,kB;K;IAEJ,kC;MAOI,Q;MAAA,IAAI,SAAK,UAAT,C;QAAA,OAAoB,MAAM,IA
AN,C;;QAAqC,kBAApB,qBAAc,SAAd,C;QAA4B,wBAAS,UAAT,EAAqB,WAArB,C;QAAjE,OU9eO,W;;MV8e
P,W;K;IAEJ,mC;MAOI,Q;MAAA,IAAI,SAAK,UAAT,C;QAAA,OAA0B,MAAN,KAAM,C;;QAAiC,kBAApB,qB
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D,iC;MAOwB,kBAApB,qBAAc,SAAd,C;MAA4B,+B;MAA5B,OUlhBO,W;K;0FVqhBX,2B;MAKI,sBAAI,IAAK
,MAAT,EAAgB,IAAK,OAArB,C;K;4FAGJ,yB;MAAA,gD;MAAA,mC;QAKI,kBAAO,KAAP,C;O;KALJ,C;4FA
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;K;8FAGJ,yB;MAAA,sD;MAAA,kC;QAMc,UAAV,SAAK,KAAK,EAAU,IAAV,C;O;KANd,C;8FASA,yB;MAA
A,sD;MAAA,kC;QAMc,UAAV,SAAK,KAAK,EAAU,IAAV,C;O;KANd,C;8FASA,yB;MAAA,sD;MAAA,kC;QA

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AAS,KAAT,C;K;4FAE7D,8B;MAKI,SAAK,WAAI,OAAJ,C;K;4FAGT,yB;MAAA,gD;MAAA,sC;QAKS,OAAL,
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ALT,C;4FAQA,yB;MAAA,gD;MAAA,sC;QAKS,OAAL,SAAK,EAAO,QAAP,C;O;KALT,C;8FAQA,8B;MAKI,S
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L,C;QACd,IAAI,UAAU,OAAV,MAAsB,uBAA1B,C;UACI,Q;QAEJ,IAAI,eAAc,SAAlB,C;UACI,sBAAK,UAAL,
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ACA,OAAO,M;K;IAGX,sC;MAOI,aAAU,2BAAV,OAA2B,CAA3B,M;QACI,QAAQ,MAAO,iBAAQ,IAAI,CAAJ
,IAAR,C;QACf,WAAW,sBAAK,CAAL,C;QACX,sBAAK,CAAL,EAAU,sBAAK,CAAL,CAAV,C;QACA,sBAA
K,CAAL,EAAU,IAAV,C;;K;IAIR,uC;MAK+E,kBAAhB,0B;MAAwB,8B;MAAxB,OzIjNpD,W;K;I0IzEmC,wC;M
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C,C;K;yCACvD,0B;MACI,eAAS,aAAI,2BAAqB,KAArB,CAAJ,EAAiC,OAAjC,C;K;;IAIjB,+C;MACoB,Q;MAA
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D,oD;MAQuF,wC;K;IARvF,8CASI,Y;MAAuC,8B;K;IAT3C,gF;IgJc8G,wC;MAAA,mB;QAAE,kBAAS,aAAT,C;
O;K;IAThH,yB;MASqG,oCAAS,sBAAT,C;K;8FAErG,yB;MAAA,kD;MhJhBA,kC;MAAA,0C;MAAA,kD;QAQu
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C;O;KAHlI,C;IAgB0C,yB;K;+CAoBtC,kC;MAOI,IAAI,uCAA0B,QAAS,UAAvC,C;QAAAkD,M;MAClD,OAAO,s

BAAS,QAAS,WAAlB,e;K;+CAGX,kC;MAQqD,6BAAS,QAAS,WAAlB,e;K;;;;;;;;IAezD,mC;MAA2C,wB;MACv
C,eAAoB,C;MACpB,mBAA4B,I;MAC5B,sBAAyC,I;MACzC,gBAAoC,I;K;gDAEpC,Y;MACI,OAAO,IAAP,C;Q
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;;K;6CkGoGA,Y;MACU,IASe,I;MATrB,QAAM,YAAN,C;aACI,C;aAAA,C;UAAsC,OAAO,qB;aAC7C,C;UACI,e
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D,Y;MAA4C,QAAM,YAAN,C;aACxC,C;UADwC,OAC1B,6B;aACd,C;UAFwC,OAExB,6BAAsB,sBAAtB,C;gB
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yBH,MnGzBG,+D;MmG0BH,eAAQ,C;K;8EAIR,Y;MAAQ,0C;K;;IhJ5LhB,oD;MAQuF,wC;K;IARvF,8CASI,Y;
MAAuC,8B;K;IAT3C,gF;sFAAA,yB;MAAA,kC;MAAA,0C;MAAA,kD;QAQuF,wC;O;MARvF,4CASI,Y;QAAu
C,8B;O;MAT3C,8E;MAAA,2B;QAQuF,2C;O;KARvF,C;IAiBgE,+C;MAAA,mB;QAAE,sB;O;K;IALlE,kC;MAKu
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W,I;MACX,iBAAY,E;MAEZ,OAAO,yE;K;iEAGX,Y;MACI,IAAI,mBAAa,EAAjB,C;QACI,iB;MACJ,OAAO,mB
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APxB,Y;MAAuC,4D;K;qDAWvC,oB;MACI,OAAO,uBAA4B,eAA5B,EAAsC,kBAAtC,EAAmD,QAAnD,C;K;;I
AUf,4D;MAAY,0B;MAAmC,gC;K;IACJ,8F;MAAA,wE;MACnC,gBAAe,2CAAS,W;MACxB,aAAY,C;K;wEAC
Z,Y;MAC0C,Q;MAAtC,OAAO,oDAAY,oBAAmB,iBAAnB,EAAmB,yBAAnB,QAAZ,EAAyC,aAAS,OAAlD,C;
K;2EAGX,Y;MACI,OAAO,aAAS,U;K;;qDARxB,Y;MAAuC,mE;K;;IAkB3C,oC;MAAY,0B;K;IAC6C,wE;MACj
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K;;IAmBzD,0D;MACI,4B;MACA,4B;MACA,4B;K;IAEuC,sE;MAAA,gD;MACnC,iBAAgB,gCAAU,W;MAC1B,
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C;MAAA,kC;MAAS,uB;MACjE,eAAoB,C;K;gDAEpB,Y;MAA2C,gB;MAAA,iE;MAAJ,4C;K;+CAEvC,Y;MAA
yC,sBAAQ,yB;K;;IARrD,+B;MAG4D,4C;K;+EAQ5D,qB;MAE8C,uCAAQ,E;K;+EAEtD,mC;MASI,OA5DgD,qB
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C,oB;MACA,8B;MACA,oB;MACA,kC;K;IAG8C,sF;MAAA,gE;MAC1C,iBAAqB,E;MACrB,yBAAwC,WAAX,yCAAW,EAAS,CAAT,EAAY,oCAAM,OAAlB,C;MACxC,uBAA2B,sB;MAC3B,gBAA0B,I;MAC1B,eAAmB,C;K;0EAEnB,Y;MACI,IAAI,uBAAkB,CAAtB,C;QACI,iBAAY,C;QACZ,gBAAW,I;;;QAEX,IAAI,4CAAQ,CAAR,IAAa,uDAAa,yCAA1B,IAAmC,uBAAkB,yCAAM,OAA/D,C;UACI,gBAAW,qCAAyB,iBAAN,yCAAM,CAAzB,C;UACX,uBAAkB,E;;;UAElB,YAAkB,iDAAN,yCAAM,EAAa,oBAAb,C;UAClB,IAAI,SAAS,IAAb,C;YACI,gBAAW,qCAAyB,iBAAN,yCAAM,CAAzB,C;YACX,uBAAkB,E;;;YAElB,IAAK,QAAiB,iBAAjB,kBAAiB,EAAa,IAAb,EAAa,aAAL,EAAY,SAAU,KAAV,a;YAC1B,gBAAW,gCAAX,KAAW,B,KAAX,C;YACX,yBAAoB,QAAQ,MAAR,I;YACpB,uBAAkB,0BAAlB,wB,WAAkB,CAAlB,C;YACA,IAAI,mBAAa,CAAb,IAAkB,CAAlB,IAAuB,CAAvB,IAA4B,CAA5B,IAAiC,CAAjC,IAAsC,CAAtC,IAA2C,CAA3C,IAAgD,CAAhD,IAAqD,CAArD,IAA0D,CAA1D,IAA+D,CAA/D,IAAoE,CAApE,IAAyE,CAAzE,IAA8E,CAA9E,IAAmF,CAAnF,IAAwF,CAAxF,IAA6F,CAA7F,IAAkG,CAAlG,IAAuG,CAAvG,IAA4G,CAA5G,IAAiH,CAAjH,IAAsH,CAAtH,IAA2H,CAA3H,IAAgI,CAAhI,IAAqI,CAArI,IAA0I,CAA1I,IAA+I,CAA/I,IAAoJ,CAApJ,IAAyJ,CAAzJ,IAA8J,CAA9J,IAAmK,CAAnK,IAAwK,CAAxK,IAA6K,CAA7K,IAAkL,CAAlL,IAAuL,CAAvL,IAA4L,CAA5L,IAAiM,CAAjM,IAAsM,CAAtM,IAA2M,CAA3M,IAAgN,CAAhN,IAAqN,CAArN,IAA0N,CAA1N,IAA+N,CAA/N,IAAoO,CAApO,IAAyO,CAAzO,IAA8O,CAA9O,IAAmP,CAAnP,IAAwP,CAAxP,IAA6P,CAA7P,IAAkQ,CAAlQ,IAAuQ,CAAvQ,IAA4Q,CAA5Q,IAAiR,CAAjR,IAAsR,CAAtR,IAA2R,CAA3R,IAAgS,CAAhS,IAAqS,CAArS,IAA0S,CAA1S,IAA+S,CAA/S,IAAoT,CAApT,IAAyT,CAAzT,IAA8T,CAA9T,IAAmU,CAAnU,IAAwU,CAAxU,IAA6U,CAA7U,IAAkV,CAAlV,IAAuV,CAAvV,IAA4V,CAA5V,IAAiW,CAAjW,IAAsW,CAAtW,IAA2W,CAA3W,IAAgX,CAAhX,IAAqX,CAArX,IAA0X,CAA1X,IAA+X,CAA/X,IAAoY,CAApY,IAAyY,CAAzY,IAA8Y,CAA9Y,IAAmZ,CAAnZ,IAAwZ,CAAxZ,IAA6Z,CAA7Z,IAAka,CAAla,IAAua,CAAva,IAA4a,CAA5a,IAAib,CAAjb,IAAsb,CAAtb,IAA2b,CAA3b,IAAgc,CAAhc,IAAqc,CAArc,IAA0c,CAA1c,IAA+c,CAA/c,IAAod,CAApd,IAAyd,CAAzd,IAA8d,CAA9d,IAAme,CAAne,IAAwe,CAAxe,IAA6e,CAA7e,IAAkf,CAAlf,IAAuf,CAAvf,IAA4f,CAA5f,IAAigB,CAAjgB,IAAsgB,CAAtgB,IAA2gB,CAA3gB,IAAghB,CAAhhB,IAAqhB,CAArhB,IAA0hB,CAA1hB,IAA+hB,CAA/hB,IAAoiB,CAApiB,IAAyiB,CAAziB,IAA8iB,CAA9iB,IAAmjB,CAAnjB,IAAwjB,CAAxjB,IAA6jB,CAA7jB,IAAkkB,CAAlkB,IAAukB,CAAvkB,IAA4kB,CAA5kB,IAAilB,CAAjlB,IAAslB,CAAtlB,IAA2lB,CAA3lB,IAAgmB,CAAhmB,IAAqmB,CAArmB,IAA0mB,CAA1mB,IAA+mB,CAA/mB,IAAonB,CAApnB,IAAynB,CAAznB,IAA8nB,CAA9nB,IAAmoB,CAAnoB,IAAwoB,CAAxoB,IAA6oB,CAA7oB,IAAkpB,CAAlpB,IAAupB,CAAvpB,IAA4pB,CAA5pB,IAAiqB,CAAjqB,IAAsqB,CAAtqB,IAA2qB,CAA3qB,IAAgrB,CAAhrB,IAAqrB,CAArrB,IAA0rB,CAA1rB,IAA+rB,CAA/rB,IAAosB,CAApsB,IAAysB,CAAzsB,IAA8sB,CAA9sB,IAAmtB,CAAntB,IAAwtB,CAAxtB,IAA6tB,CAA7tB,IAAkuB,CAAluB,IAAuuB,CAAvuB,IAA4uB,CAA5uB,IAAivB,CAAjvB,IAAsvB,CAAtvB,IAA2vB,CAA3vB,IAAgwB,CAAhwB,IAAqwB,CAArwB,IAA0wB,CAA1wB,IAA+wB,CAA/wB,IAAoxB,CAApxB,IAAyxB,CAAzxB,IAA8xB,CAA9xB,IAAmyB,CAAnyB,IAAwyB,CAAxyB,IAA6yB,CAA7yB,IAAkzB,CAAlzB,IAAuzB,CAAvzB,IAA4zB,CAA5zB,IAAi0B,CAAj0B,IAAs0B,CAAt0B,IAA20B,CAA30B,IAAg1B,CAAh1B,IAAq1B,CAAr1B,IAA01B,CAA11B,IAA+1B,CAA/1B,IAAo2B,CAAp2B,IAAy2B,CAAz2B,IAA82B,CAA92B,IAAm3B,CAAn3B,IAAw3B,CAAx3B,IAA63B,CAA73B,IAAk4B,CAAl4B,IAAu4B,CAAv4B,IAA44B,CAA54B,IAAi5B,CAAj5B,IAAs5B,CAAt5B,IAA25B,CAA35B,IAAg6B,CAAh6B,IAAq6B,CAAr6B,IAA06B,CAA16B,IAA+6B,CAA/6B,IAAo7B,CAAp7B,IAAy7B,CAAz7B,IAA87B,CAA97B,IAAm8B,CAAn8B,IAAw8B,CAAx8B,IAA68B,CAA78B,IAAk9B,CAAl9B,IAAu9B,CAAv9B,IAA49B,CAA59B,IAAi+B,CAAj+B,IAAs+B,CAAt+B,IAA2+B,CAA3+B,IAAg/B,CAAh/B,IAAq/B,CAAr/B,IAA0/B,CAA1/B,IAA+/B,CAA//B,IAAohC,CAAphC,IAAyhC,CAAzhC,IAA8hC,CAA9hC,IAAmiC,CAAniC,IAAwiC,CAAxiC,IAA6iC,CAA7iC,IAAkjC,CAAljC,IAAujC,CAAvjC,IAA4jC,CAA5jC,IAAikC,CAAjkC,IAAskC,CAAtkC,IAA2kC,CAA3kC,IAAglC,CAAhlC,IAAqlC,CAArlC,IAA0lC,CAA1lC,IAA+lC,CAA/lC,IAAomC,CAApmC,IAAymC,CAAzmC,IAA8mC,CAA9mC,IAAmnC,CAAnnC,IAAwnC,CAAxnC,IAA6nC,CAA7nC,IAAkoC,CAAloC,IAAuoC,CAAvoC,IAA4oC,CAA5oC,IAAipC,CAAjpC,IAAspC,CAAtpC,IAA2pC,CAA3pC,IAAgqC,CAAhqC,IAAqqC,CAArqC,IAA0qC,CAA1qC,IAA+qC,CAA/qC,IAAorC,CAAprC,IAAyrC,CAAzrC,IAA8rC,CAA9rC,IAAmsC,CAAnsC,IAAwsC,CAAxsC,IAA6sC,CAA7sC,IAAktC,CAAltC,IAAutC,CAAvtC,IAA4tC,CAA5tC,IAAiuC,CAAjuC,IAAsuC,CAAtuC,IAA2uC,CAA3uC,IAAgvC,CAAhvC,IAAqvC,CAArvC,IAA0vC,CAA1vC,IAA+vC,CAA/vC,IAAowC,CAApwC,IAAywC,CAAzwC,IAA8wC,CAA9wC,IAAmxC,CAAnxC,IAAwxC,CAAxxC,IAA6xC,CAA7xC,IAAkyC,CAAlyC,IAAuyC,CAAvyC,IAA4yC,CAA5yC,IAAizC,CAAjzC,IAAszC,CAAtzC,IAA2zC,CAA3zC,IAAg0C,CAAh0C,IAAq0C,CAAr0C,IAA00C,CAA10C,IAA+0C,CAA/0C,IAAo1C,CAAp1C,IAAy1C,CAAz1C,IAA81C,CAA91C,IAAm2C,CAAn2C,IAAw2C,CAAx2C,IAA62C,CAA72C,IAAk3C,CAAl3C,IAAu3C,CAAv3C,IAA43C,CAA53C,IAAi4C,CAAj4C,IAAs4C,CAAt4C,IAA24C,CAA34C,IAAg5C,CAAh5C,IAAq5C,CAAr5C,IAA05C,CAA15C,IAA+5C,CAA/5C,IAAo6C,CAAp6C,IAAy6C,CAAz6C,IAA86C,CAA96C,IAAm7C,CAAn7C,IAAw7C,CAAx7C,IAA67C,CAA77C,IAAk8C,CAAl8C,IAAu8C,CAAv8C,IAA48C,CAA58C,IAAi9C,CAAj9C,IAAs9C,CAAt9C,IAA29C,CAA39C,IAAg+C,CAAh+C,IAAq+C,CAAr+C,IAA0+C,CAA1+C,IAA++C,CAA/+C,IAAo/C,CAAp/C,IAAy/C,CAAz/C,IAA8/C,CAA9/C,IAAmgD,CAAngD,IAAwgD,CAAxgD,IAA6gD,CAA7gD,IAAkhD,CAAlhD,IAAuhD,CAAvhD,IAA4hD,CAA5hD,IAAiiD,CAAjiD,IAAsiD,CAAtiD,IAA2iD,CAA3iD,IAAgjD,CAAhjD,IAAqjD,CAArjD,IAA0jD,CAA1jD,IAA+jD,CAA/jD,IAAokD,CAApkD,IAAykD,CAAzkD,IAA8kD,CAA9kD,IAAmlD,CAAnlD,IAAwlD,CAAxlD,IAA6lD,CAA7lD,IAAkmD,CAAlmD,IAAumD,CAAvmD,IAA4mD,CAA5mD,IAAinD,CAAjnD,IAAsnD,CAAtnD,IAA2nD,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;MAAA,4B;MAAA,mB;QAUqC,OAAK,QAAL,SAAK,C;O;KAV1C,C;4EAWA,Y;MASiC,gB;K;8EACjC,yB;MA
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AA,+B;MCpEI,mB;QASqC,ODsEA,eAAW,OCtEX,SDsEW,CAAX,C;O;KC/ErC,C;kFAUA,yB;MC2DJ,4B;MAA
A,iC;MD3DI,mB;QASuC,OC6DA,gBAAY,QD7DZ,SC6DY,CAAZ,C;O;KDtEvC,C;8EAUA,Y;MAEmC,W;K;gF
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;;;;8BAzPtD,Y;MAAA,c;MAG4D,qD;MAH5D,a;K;4BAAA,iB;MAAA,2IAG4D,oCAH5D,G;K;sEA6PA,yB;MAA
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;MACY,Q;MAA2B,gBAA3B,gE;MAA2B,c;;QZ44CvB,U;QADhB,IAAI,wCAAsB,mBAA1B,C;UAAqC,aAAO,I;
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C,aAAO,I;;;MY74CH,iB;K;kCAGJ,Y;MAAkC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;K;;IA7CvD,qC;MAAA,m
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,K4LtKL,I;K;mCAE5B,Y;MAAkC,OAAE,UAAF,qBAAU,S;K;IAE5C,+B;MAAA,mC;MACI,aAC8B,cAAU,4BA
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A,gD;QAAA,+B;;MAAA,yC;K;;IAoBiC,oD;MAAuC,uB;MACxE,sBAA2B,I;MAC3B,iBAAmC,OAAO,CAA1C,
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;K;;IAMhC,0B;K;oCAII,Y;MAA4B,wB;K;;IAMhC,wB;K;kCAII,Y;MAA4B,sB;K;;IAMhC,yB;K;mCAII,Y;MAA4
B,uB;K;;I/J7BN,qB;MAEtB,6B;MAFyD,gB;K;IAEzD,2B;MAAA,+B;MACI,iBAGoC,a;MAEpC,iBAGoC,c;MAEp
C,kBAGmC,C;MAEnC,iBAGkC,E;K;;;IAnBtC,uC;MAAA,sC;QAAA,qB;;MAAA,+B;K;sGAsBA,yB;M/B0LA,W
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W,oB+B7LyB,K/B6L9B,KAAK,CAAL,UAAN,C+BpK4D,MAA9B,C;O;KA/BnE,C;sGAQA,yB;M7BmLA,aAS6
D,0B;MAT7D,+B;M6BnKA,gD;MAhBA,wB;QAM2D,OAiBQ,aAAa,IAAK,KAAlB,EAA8B,C7BqK5D,eAAW,o
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;M+BzJA,wB;QAEuD,OASA,eAAM,IAAK,KAAK,KAAW,C/BuJ7C,eAAW,oB+BhKiB,K/BgKtB,KAAK,CAAL,
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EwD,OAMD,eAAM,IAAK,KAAK,KAAW,C7BwJ7C,eAAW,oB6B9JkB,K7B8JvB,KAAK,CAAL,YAAN,C6BxJ6
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hB,C;O;KALvD,C;4FAGA,yB;MAAA,+B;MAAA,wB;QAEuD,sBAAM,IAAK,KAAK,KAAK,KAAM,KAAX,CA
AhB,C;O;KAFvD,C;8FAIA,yB;M/B4IA,WAS6D,wB;MAT7D,+B;M+B5IA,wB;QAEwD,OASA,eAAM,IAAK,KA
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C;8FAGA,yB;M7B0IA,aAS6D,0B;MAT7D,+B;M6B1IA,wB;QAEyD,OAMD,eAAM,IAAK,KAAK,UAAY,C7B2I
/C,eAAW,oB6BjJoB,K7BiJzB,KAAK,CAAL,YAAN,C6B3I+C,MAAZ,CAAhB,C;O;KARxD,C;8FAGA,yB;M9B8
IA,kBAS6D,sB;MAT7D,+B;M8B9IA,wB;QAEuD,OAGC,eAAM,IAAK,KAAK,UAAY,C9BkJ/C,eAAW,oB8BrJk
B,K9BqJvB,KAAK,CAAL,iBAAN,C8BlJ+C,MAAZ,CAAhB,C;O;KALxD,C;8FAGA,yB;MAAA,+B;MAAA,wB;
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B7HA,wB;QAEyD,OAMD,eAAM,IAAK,KAAK,UAAY,C7B8H/C,eAAW,oB6BpIoB,K7BoIzB,KAAK,CAAL,Y
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D,OASA,YAAY,IAAZ,E/BgHjB,eAAW,oB+BzHe,K/ByHpB,KAAK,CAAL,UAAN,C+BhHiB,C;O;KAXtD,C;0F
AGA,yB;M7BgHA,aAS6D,0B;MAT7D,+B;M6B1GA,8C;MANA,wB;QAEuD,OAMD,YAAY,IAAZ,E7BiHjB,eA
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iB,C;O;KALtD,C;0FAGA,yB;MAAA,oD;MAAA,wB;QAEsD,sBAAe,IAAf,EAAAqB,KAArB,C;O;KAFtD,C;0EAI
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1C,C;8EAWA,Y;MAUiC,OAAA,SAAK,Q;K;gFACtC,Y;MASmC,gB;K;kFAEnC,yB;M/B+EJ,0B;MAAA,+B;M+
B/EI,mB;QASqC,O/BiFC,eAAW,O+BjFZ,S/BiFY,SAAX,C;O;K+B1FtC,C;oFAUA,yB;M7BsEJ,4B;MAAA,iC;M6
BtEI,mB;QASuC,O7BwEC,gBAAY,Q6BxEb,S7BwEa,SAAZ,C;O;K6BjFxC,C;gFAUA,yB;M9BqEJ,6B;M8BrEI,
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D;MATA,mB;QAQqC,OASE,cAAc,SAAd,C;O;KAjBvC,C;oFASA,yB;MAAA,kD;MAAA,mB;QAQuC,qBAAc,S
AAd,C;O;KARvC,C;+BAUA,Y;MAAyC,qBAAc,SAAd,C;K;;;;;+BA5P7C,Y;MAAA,c;MAG6D,qD;MAH7D,a;K;
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K,CAAX,C;O;KAX1C,C;0EAYA,yB;MAAA,+B;MAAA,4B;QAW2C,sBAAW,oBAAL,SAAK,CAAX,C;O;KAX3
C,C;0EAYA,yB;MAAA,+B;MAAA,4B;QAWyC,sBAAW,oBAAL,SAAK,CAAX,C;O;KAXzC,C;0EAYA,yB;MA
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,SAAnB,C;O;KAT3C,C;0EAUA,yB;MAAA,kD;MAAA,4B;QAS4C,qBAAc,SAAd,C;O;KAT5C,C;IDzTA,6B;MA
EqB,sB;K;uCAKjB,iB;MAM6C,OCgSP,UDhSO,aAAQ,KAAR,CCgSP,C;K;uCD9RtC,wB;MAOI,aAAQ,KAAR,I
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MAAiC,wB;MAAhC,oB;MACnB,eAAoB,C;K;4CACpB,Y;MAAyB,sBAAQ,YAAM,O;K;8CACvC,Y;MAAyD,Q;
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AiB,KAAtB,CDpI6B,MAAK,GCAK,KDAO,KAAZ,IAAf,C;O;KCFtD,C;gGAGA,yB;MAoIA,aAS6D,0B;MAT7D,
+B;MApIA,wB;QAEwD,O6BAA,eAAW,C7B2I9B,eAAW,oBAAL,SAAK,CAAL,YAAN,C6B3I8B,MAAK,U7BA

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I,OAAJ,C;YAAyB,aAAO,K;YAAP,e;;;QAC/C,aAAO,I;;;Me74CH,iB;K;oCAGJ,Y;MAAkC,OAAA,IAAK,QAAQ,OAAb,KAAqB,C;K;;IA7CvD,uC;MAAA,qD;MACgC,wBAAK,eAAW,IAAX,CAAL,C;MADhC,Y;K;;;;qCAPJ,Y;MAAA,OAKqB,sDALrB,M;K;qCAAA,Y;MAAA,c;MAKqB,wD;MALrB,a;K;mCAAA,iB;MAAA,2IAKqB,0CALrB,G;K;kFAuDA,yB;MAAA,2C;MAWwC,0C;QAAA,wB;UAAW,OAAA,aAAK,KAAL,C9ByGV,K;S;O;M8BpHzC,6B;QAWI,OAAO,qBAAY,gCAAW,IAAX,GAAiB,wBAAjB,CAAZ,C;O;KAXX,C;oFAcA,oB;MAGwE,e;K;ImKxExE,sC;MAQ2D,OAAa,WAAb,SnM4KjB,KAAL,GAAiB,GmM5KkB,EAAS,KAAT,C;K;IAExE,sC;MAQ4D,OAAa,WAAb,SjMmKlB,KAAL,GAAiB,KiMnKmB,EAAS,KAAT,C;K;IAGzE,sC;MAQ0D,OAAc,WlMyK5B,oBkMzKc,SlMyKnB,KAAK,CAAL,iBkMzKiC,EAAS,KAAT,C;K;IAExE,sC;MAOgD,uBAAc,SpKiKvB,KoKjKS,EAA6B,WAAW,KAAX,CAA7B,C;K;IAGhD,8B;MAMqC,Q;MAAA,0DAAmB,kBAAkB,SAAlB,C;K;IAExD,qC;MAO+C,Q;MAAA,0CAAc,KAAd,oBAAwB,kBAAkB,SAAlB,C;K;IAGvE,+B;MAMuC,Q;MAAA,2DAAoB,kBAAkB,SAAlB,C;K;IAE3D,sC;MAOiD,Q;MAAA,2CAAe,KAAf,oBAAyB,kBAAkB,SAAlB,C;K;IAE1E,6B;MAMmC,Q;MAAA,yDAAkB,kBAAkB,SAAlB,C;K;IAErD,oC;MAO6C,Q;MAAA,yCAAa,KAAb,oBAAuB,kBAAkB,SAAlB,C;K;IAEpE,8B;MAMqC,Q;MAAA,0DAAmB,kBAAkB,SAAlB,C;K;IAExD,qC;MAO+C,Q;MAAA,0CAAc,KAAd,oBAAwB,kBAAkB,SAAlB,C;K;IAMvE,kC;MAM4C,kCAAsB,EAAAtB,C;K;IAE5C,2C;MASmB,Q;MAAA,sBAAL,SAAK,EAAAa,KAAAb,C;MAAL,iB;QAA4B,OAAO,I;;MAA7C,UAAU,I;MACV,IlMhFkE,YkMgF9D,GlMhF+E,KAAjB,EAA6B,CDkK5D,SmMlFzB,6BAAM,UnMkF6B,KAAL,GAAiB,GAAtB,CClK4D,MAA7B,CkMgF9D,IAAJ,C;QAA2B,OAAO,I;MAClC,OnMkJqC,UAAW,OmMlJzC,GlM4E8B,KDsEW,CAAX,C;K;ImM/IzC,mC;MAM8C,mCAAuB,EAAvB,C;K;IAE9C,4C;MASmB,Q;MAAA,sBAAL,SAAK,EAAAa,KAAAb,C;MAAL,iB;QAA4B,OAAO,I;;MAA7C,UAAU,I;MACV,IlMtGkE,YkMsG9D,GlMtG+E,KAAjB,EAA6B,CCmK5D,SiM7DzB,8BAAO,UjM6D4B,KAAL,GAAiB,KAAAtB,CDnK4D,MAA7B,CkMsG9D,IAAJ,C;QAA4B,OAAO,I;MACnC,OjM6HuC,WAAY,QiM7H5C,GlMgEgC,KC6DY,CAAZ,C;K;IiM1H3C,iC;MAM0C,iCAAqB,EAArB,C;K;IAE1C,0C;MASI,WAAW,KAAX,C;MAEA,aAAa,SAAK,O;MAClB,IAAI,WAAU,CAAd,C;QAAiB,OAAO,I;MAExB,YAAkB,4BAAK,U;MACAvB,S;MAEA,gBAAgB,qBAAK,CAAL,C;MAChB,IAAI,YAAY,EAAhB,C;QACI,IAAI,WAAU,CAAV,IAAe,cAAa,EAAhC,C;UAAqC,OAAO,I;QAC5C,QAAQ,C;;;QAER,QAAQ,C;;MAGZ,uBAAuB,mB;MAEvB,qBAAqB,gB;MACrB,alM+FmC,SkM/FtB,KlM+FsB,C;MkM9FnC,aAAa,W;MACAb,aAAU,KAAAV,MAAAsB,MAAAtB,M;QACI,YAAY,QAAQ,qBAAK,CAAL,CAAR,EAAAiB,KAAAjB,C;QAEZ,IAAAI,QAAAQ,CAAAZ,C;UAAAe,OAAAO,I;QACtB,IlMpJ8D,YkMoJ1D,MlMpJ2E,KAAjB,EkMoJjD,clMpJ8E,KAA7B,CkMoJ1D,IAAJ,C;UACI,IAAI,+CAAAkB,gBAAAlB,QAAAJ,C;YACI,iBlM7FwC,WkM6FvB,KlM7FuB,EkM6Ff,MlM7Fe,C;YkM+FxC,IlMxJsD,YkMwJlD,MlMxJmE,KAAjB,EkMwJzC,clMxJsE,KAA7B,CkMwJlD,IAAJ,C;cACI,OAAO,I;;;;YAGX,OAAO,I;;;QAIf,SlM pHkD,SAAe,YkMoHjE,MlMpH4D,KAAAK,EkMoHvD,MlMpHmE,KAAAZ,CAAAhB,C;QkMsHlD,mBAAAmB,M;QACAnB,SlMjJiD,SkMiJjD,MlMjJ2D,KAAAK,GAAAW,CA2N5C,SkM1ErB,KlM0EqB,CA3N4C,MAAAX,IAAAf,C;QkMkJ D,IlMpK8D,YkMoK1D,MlMpK2E,KAAjB,EkMoKjD,YlMpK8E,KAA7B,CkMoK1D,IAAJ,C;UAA2B,OAAO,I;;MAGtC,OAAO,M;K;IAGX,kC;MAM4C,kCAAsB,EAAAtB,C;K;IAE5C,2C;MASI,WAAW,KAAX,C;MAEA,aAAa,SAAK,O;MAClB,IAAI,WAAU,CAAd,C;QAAiB,OAAO,I;MAExB,YAAmB,6BAAM,U;MACCzB,S;MAEA,gBAAgB,qBAAK,CAAL,C;MAChB,IAAI,YAAY,EAAhB,C;QACI,IAAI,WAAU,CAAV,IAAe,cAAa,EAAhC,C;UAAqC,OAAO,I;QAC5C,QAAQ,C;;;QAER,QAAQ,C;;MAGZ,uBAAuB,gD;MAEvB,qBAAqB,apKkCqC,UAAAW,oBoKlCrC,KpKkCqCmC,CAAAX,C;MoKjCrC,aAAa,2B;MACAb,aAAU,KAAAV,MAAAsB,MAAAtB,M;QACI,YAAY,QAAQ,qBAAK,CAAL,CAAR,EAAAiB,KAAAjB,C;QAEZ,IAAAI,QAAAQ,CAAAZ,C;UAAAe,OAAAO,I;QACtB,IpK7M+D,aoK6M3D,MpK7M6E,KAAAlB,EoK6MpE,cpK7MgF,KAA5E,CoK6M3D,IAAJ,C;UACI,IAAI,+CAAAkB,gBAAAlB,QAAAJ,C;YACI,iBpK3J0C,YoK2JzB,KpK2JzB,EoK2JjB,MpK3JiB,C;YoK6J1C,IpKjNqE,aoKiNjE,MpKjNmF,KAAAlB,EoKiN1E,cpKjNsF,KAA5E,CoKiNjE,IAAJ,C;cACI,OAAO,I;;;;YAGX,OAAO,I;;;QAIf,SpKlLoD,UoKkLpD,MpKlLoD,KAAA,EoKkL/C,MpKlL2D,KAAAZ,CAAAhB,C;QoKoLlD,mBAAAmB,M;QACAnB,SpK/MmD,UoK+MnD,MpK/M8D,KAAA,EoK/MpE,MpK/MoE,KAAA,C9B+J7C,UAAAW,oBAAAL,CAAyDR,SkMTrB,KlMSqB,CAAzDQ,MAAAK,CAAAL,iBAAAN,C8B/J6C,MAAAX,CAAAhB,C;QoKgNlD,IpKnO8D,aoKmO1D,MpKnO4E,KAAAlB,EoKmOnE,YpKnO+E,KAA5E,CoKmO1D,IAAJ,C;UAA2B,OAAO,I;;MAGtC,OAAO,M;K;I3L7RX,6B;MACkD,OAAAuB,0BAAAtB,KAAAO,WAAAe,EAAAAU,KAAAO,WAAAjB,C;K;IACCzE,8B;MACqD,OAAAC,gCAAAuB,iBAAAU,gCAAAV,C;K;IAE7E,4B;MACoD,OPwSZ,SAvGI,oBOjMS,EPiMd,KAAK,CAAL,iBOjMc,KPiMT,oBOjMuB,EPiM5B,KAAK,CAAL,iBOjMc,CPwSH,QAAAV,C;K;IOvSxC,+B;MACuD,OPsSf,SAvGI,oBO/LY,EP+LjB,KAAK,CAAL,iBO/LiB,QP+LZ,oBO/L0B,EP

+L/B,KAAK,CAAL,iBO/LiB,CPsSN,QAAV,C;K;IOjSxC,6B;MAEI,eAAe,EuByLoB,K;MvBxLnC,cAAc,EuBwLq
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,OAC5B,W;;QACb,SP+LuC,aO/LlC,4BAAK,UP+L0C,KAAb,CO/LvC,C;UAFyC,OAEP,4BAAK,U;;UACvC,SP8
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yON,SOrOX,YAAF,CAAE,CPqOW,C;;;YOzOM,OPcY,SAAU,CA2N5B,SOpOP,YAAnB,IAAI,UAAe,CPoOO,C
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CAAE,CAAF,C;QAD2C,OAC9B,2B;;QACb,SuByLuC,cvBzLlC,6BAAM,UuByL0C,KAAd,CvBzLvC,C;UAF2C,
OAER,6BAAM,U;;UACzC,SuBwLuC,cvBxLlC,6BAAM,UuBwL0C,KAAd,CvBxLvC,C;YAH2C,OAGR,6BAAM
,U;eACzC,4C;YAJ2C,OuB+OL,UvB3Od,uBAAF,CAAE,CuB2Oc,C;;;YvB/OK,OuBQY,UAAW,CAuO5B,UvBxO
F,uBAA3B,IAAI,oBAAuB,CuBwOE,CAvO4B,MAAK,KAAW,CvBDzB,gCuBCyB,MAAX,CAAhB,C;;;;K;IvBG3
D,yB;MAC4C,QAAC,CAAqB,GAAf,UAAP,IAAmC,CAAC,MAAO,EAAW,IAAJ,EAAf,IAAgC,C;K;IAE/G,0B;
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c,CAAd,EAAiB,EAAjB,C;K;IAE9C,kC;MACI,IAAI,gBAAK,CAAT,C;QAAY,OAAS,WAAF,CAAE,EAAS,IAAT
,C;MAErB,eAAiB,qBAAO,CAAP,CAAD,yBAAa,IAAb,EAAD,WAAwB,CAAxB,C;MACf,UAAU,WAAI,sCAA
W,IAAX,EAAJ,C;MACV,IAAI,kBAAO,IAAX,C;QACI,uCAAO,IAAP,E;QACA,4CAAY,CAAZ,E;;MAEJ,OAAg
B,WAAT,QAAS,EAAS,IAAT,CAAT,GAA8B,WAAJ,GAAI,EAAS,IAAT,C;K;I4L3FzC,qC;K;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;
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JtGxC,gC;;;;I4LAqC,2C;MAAC,8C;MAClC,eAAsB,C;MACtB,wBAA+B,C;MAC/B,gBAA6B,I;MAC7B,mBAAs
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B;MACR,mBAAiB,S;MACjB,wB;K;gDAGJ,Y;MACI,iBAA8B,yB;MC8EzB,Q;;QAHL,aD3EoD,e;QC4EpD,IAAI,
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AAA,2C;K;;;;ICmB2B,oD;MACf,cAAc,GAAI,kBAAS,OAAQ,IAAjB,C;MAClB,IAAI,YAAY,mCAAhB,C;QAD
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CtC,Y;MAAyC,8B;K;;;IAV7C,6C;MAAA,4C;QAAA,2B;;MAAA,qC;K;IAiB8B,wC;MAAC,gB;MAA4B,sB;K;4C
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uBA,oE;MAUI,MAAM,wBAAoB,sEAApB,C;K;2HAVV,yB;MAAA,gE;MAAA,sC;QAUI,MAAM,6BAAoB,sEA
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;;;;;;;;;;;;;;;;;;;;;;;;;;;;gBPR8B,S;cACF,S;0BEGiB,sC;qBMsCH,C;yBACI,C;sBACH,C;kBACJ,C;iBACD,C;mBACE,
C;;;;C7N3EvC,E;"}

Found
 in path(s):
* /opt/cola/permits/1857053638_1701325215.6881793/0/kotlin-1-3-60-2-tgz/package/kotlin.js.map

1.1285 @commitlint/to-lines 17.8.1

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1.1286 socket-rocket 0.6.1

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1.1287 @tsconfig/react-native 3.0.2

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1.1288 @types/node 20.10.1

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1.1289 shiki 0.14.5

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1.1290 @commitlint/read 17.8.1

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1.1291 @types/react 18.2.39

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1.1292 del 7.1.0

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1.1293 del-cli 5.1.0

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1.1294 @commitlint/ensure 17.8.1

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1.1295 @react-native/metro-config 0.72.11

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* @flow
* @noformat
*/

Found in path(s):

* /opt/cola/permits/1857053385_1701325327.184666/0/metro-config-0-72-11-tgz/package/index.js

1.1296 cli-width 4.1.0

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1.1297 git-url-parse 13.1.0

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1.1298 app-dynamics-agent 2023.10.1

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1.1299 electron-to-chromium 1.4.597

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1.1301 @babel/preset-env 7.23.5

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1.1302 @react-native/normalize-colors 0.74.1

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* @noflow
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* /opt/cola/permits/1857053492_1701325334.7802856/0/normalize-colors-0-74-1-tgz/package/index.js

1.1303 @commitlint/rules 17.8.1

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1.1304 @babel/preset-react 7.23.3

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1.1307 pod-install 0.1.39

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1.1308 @commitlint/config-validator 17.8.1

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1.1309 vscode-languageserver-textdocument 1.0.11

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1.1310 vscode-uri 3.0.8

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1.1311 @babel/runtime 7.23.5

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1.1312 universal-user-agent 6.0.1

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1.1313 commitlint 17.8.1

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1.1314 @commitlint/resolve-extends 17.8.1

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1.1315 vscode-languageserver-types 3.17.5

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1.1318 @octokit/openapi-types 18.1.1

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1.1321 @react-native/eslint-plugin 0.72.0

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* /opt/cola/permits/1857053646_1701325361.8242025/0/eslint-plugin-0-72-0-tgz/package/index.js
* /opt/cola/permits/1857053646_1701325361.8242025/0/eslint-plugin-0-72-0-tgz/package/platform-colors.js
* /opt/cola/permits/1857053646_1701325361.8242025/0/eslint-plugin-0-72-0-tgz/package/__tests__/eslint-tester.js
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1.1323 @babel/plugin-transform-react-pure-annotations 7.23.3

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