# BSTinsert

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Metric | JavaScript | Swift | C | Kotlin | Java | Dart |
| Execution time (ms) | 702.1230 | 10.99503 | 2.587931 | 20.91412 | 3.652202 | 2.162 |
| Max RSS Memory(kb) | 30224 | 116836 | 1956 | 54320 | 85516 | 14016 |
| Minor (frame) pf | 7320 | 11088 | 140 | 7847 | 15231 | 2116 |
| Voluntary con. switches | 105 | 12 | 0 | 273 | 645 | 1 |
| Involuntary con. switches | 43 | 14 | 1 | 561 | 1479 | 6 |

# BSTremove

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Metric | JavaScript | Swift | C | Kotlin | Java | Dart |
| Execution time (ms) | 2.934760 | 24.86896 | 1.128974 | 3.733703 | 4.005109 | 1.646 |
| Max RSS Memory(kb) | 29412 | 117408 | 1956 | 54152 | 85332 | 14124 |
| Minor (frame) pf | 6943 | 11233 | 140 | 7886 | 14574 | 2120 |
| Voluntary con. switches | 12 | 18 | 0 | 400 | 637 | 1 |
| Involuntary con. switches | 43 | 6 | 1 | 542 | 1844 | 6 |

# countingSort

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Metric | JavaScript | Swift | C | Kotlin | Java | Dart | C++ |
| Execution time (ms) | 6.011834 | 3.624081 | 2.454482 | 3.855282 | 7.521404 | 1.334 | 0.403986 |
| Max RSS Memory(kb) | 31092 | 114132 | 5592 | 51864 | 86268 | 14644 | 3992 |
| Minor (frame) pf | 7387 | 10373 | 1048 | 7159 | 14641 | 2241 | 233 |
| Voluntary con. switches | 17 | 9 | 0 | 84 | 442 | 1 | 0 |
| Involuntary con. switches | 33 | 7 | 1 | 478 | 1503 | 6 | 1 |

# gradientBitmapCalculator

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Metric | JavaScript | Swift | C | Kotlin | Java | Dart | Go |
| Execution time (ms) | 11.16226 | 19.56593 | 1.523159 | 73.04131 | 22.83247 | 33.381 | 2.556760 |
| Max RSS Memory(kb) | 36928 | 111332 | 2564 | 39720 | 86208 | 31124 | 2800 |
| Minor (frame) pf | 8785 | 10577 | 306 | 4007 | 14958 | 6872 | 436 |
| Voluntary con. switches | 14 | 11 | 0 | 79 | 404 | 18 | 2 |
| Involuntary con. switches | 23 | 9 | 1 | 317 | 1637 | 39 | 32 |

# insertionSort

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Metric | JavaScript | Swift | C | Kotlin | Java | Dart | C++ |
| Execution time (ms) | 57.89539 | 199.8370 | 14.31304 | 31.33890 | 31.83080 | 160.886 | 11.1588 |
| Max RSS Memory(kb) | 29724 | 113012 | 1740 | 51464 | 84476 | 13748 | 3592 |
| Minor (frame) pf | 6978 | 10298 | 73 | 7059 | 14194 | 2048 | 137 |
| Voluntary con. switches | 9 | 19 | 0 | 133 | 774 | 4 | 0 |
| Involuntary con. switches | 32 | 23 | 1 | 531 | 1828 | 6 | 1 |

# mergeSort

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Metric | JavaScript | Swift | C | Kotlin | Java | Dart | C++ |
| Execution time (ms) | 18.44517 | 8.969068 | 0.806254 | 23.77093 | 6.158193 | 6.464 | 1.26941 |
| Max RSS Memory(kb) | 32300 | 114724 | 1708 | 54960 | 85228 | 16480 | 3592 |
| Minor (frame) pf | 7686 | 10673 | 81 | 8022 | 14488 | 2673 | 146 |
| Voluntary con. switches | 12 | 13 | 0 | 225 | 664 | 0 | 0 |
| Involuntary con. switches | 50 | 18 | 1 | 519 | 1835 | 6 | 1 |

# breadthFirstSearch

|  |  |  |  |
| --- | --- | --- | --- |
| Metric | C | Kotlin | Java |
| Execution time (ms) | 33.73484 | 32.51665 | 18.34101 |
| Max RSS Memory(kb) | 32940 | 85308 | 85616 |
| Minor (frame) pf | 7887 | 15756 | 14919 |
| Voluntary con. switches | 60 | 201 | 576 |
| Involuntary con. switches | 1 | 582 | 1414 |

# depthFirstSearch

|  |  |  |  |
| --- | --- | --- | --- |
| Metric | C | Kotlin | Java |
| Execution time (ms) | 1.993470 | 36948.91 | 73.51902 |
| Max RSS Memory(kb) | 17348 | 251496 | 86980 |
| Minor (frame) pf | 3975 | 61097 | 15230 |
| Voluntary con. switches | 0 | 2701 | 415 |
| Involuntary con. switches | 1 | 6162 | 1342 |