# BSTinsert

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Metric | JavaScript | Swift | C | Kotlin | Java | Dart |
| Execution time (ms) | 463.3061 | 11.33906 | 0.009756 | 25.29294 | 3.0 | 0.129 |
| Max RSS Memory(kb) | 30508 | 117340 | 1952 | 53440 | 86956 | 13888 |
| Minor (frame) pf | 7316 | 11093 | 138 | 7669 | 14356 | 1995 |
| Voluntary con. switches | 13 | 28 | 0 | 185 | 697 | 1 |
| Involuntary con. switches | 41 | 7 | 1 | 515 | 1813 | 6 |

# BSTremove

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Metric | JavaScript | Swift | C | Kotlin | Java | Dart |
| Execution time (ms) | 2.929883 | 25.51007 | 0.001565 | 4.926923 | 4.0 | 0.107 |
| Max RSS Memory(kb) | 29564 | 117368 | 2028 | 54104 | 84704 | 13828 |
| Minor (frame) pf | 6946 | 11232 | 138 | 7819 | 14728 | 2000 |
| Voluntary con. switches | 9 | 24 | 0 | 141 | 600 | 2 |
| Involuntary con. switches | 39 | 4 | 1 | 558 | 1507 | 6 |

# countingSort

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Metric | JavaScript | Swift | C | C++ | Kotlin | Java | Dart |
| Execution time (ms) | 6.564933 | 2.904057 | 0.062464 | 0.571167 | 4.210463 | 8.0 | 1.409 |
| Max RSS Memory(kb) | 31284 | 113672 | 1652 | 3988 | 51808 | 84600 | 14748 |
| Minor (frame) pf | 7413 | 10384 | 71 | 234 | 7143 | 15260 | 2240 |
| Voluntary con. switches | 89 | 22 | 9 | 0 | 115 | 509 | 0 |
| Involuntary con. switches | 43 | 7 | 1 | 1 | 481 | 1455 | 6 |

# gradientBitmapCalculator

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Metric | JavaScript | Swift | C | Kotlin | Java | Go | Dart |
| Execution time (ms) | 21.56561 | 0.462055 | 0.000055 | 7.63304 | 0.375423 | 0.019061 | 0.016 |
| Max RSS Memory(kb) | 30844 | 110468 | 1552 | 35088 | 83460 | 1792 | 12876 |
| Minor (frame) pf | 7351 | 10323 | 59 | 2976 | 14735 | 183 | 1803 |
| Voluntary con. switches | 28 | 18 | 0 | 77 | 455 | 0 | 0 |
| Involuntary con. switches | 32 | 12 | 1 | 276 | 1393 | 6 | 6 |

# insertionSort

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Metric | JavaScript | Swift | C | C++ | Kotlin | Java | Dart |
| Execution time (ms) | 58.09269 | 205.1379 | 0.062027 | 62.9898 | 42.90768 | 51.0 | 168.206 |
| Max RSS Memory(kb) | 29500 | 113088 | 1696 | 3544 | 50848 | 84132 | 13776 |
| Minor (frame) pf | 6969 | 10282 | 72 | 136 | 6920 | 14992 | 2050 |
| Voluntary con. switches | 11 | 10 | 0 | 63 | 166 | 680 | 14 |
| Involuntary con. switches | 41 | 23 | 1 | 1 | 557 | 1758 | 6 |

# mergeSort

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Metric | JavaScript | Swift | C | C++ | Kotlin | Java | Dart |
| Execution time (ms) | 20.29584 | 10.18500 | 0.001587 | 1.63248 | 24.45324 | 5.0 | 6.497 |
| Max RSS Memory(kb) | 32472 | 114988 | 1724 | 3596 | 54960 | 85560 | 16532 |
| Minor (frame) pf | 7752 | 10687 | 81 | 146 | 8022 | 15294 | 2670 |
| Voluntary con. switches | 47 | 9 | 0 | 0 | 199 | 585 | 3 |
| Involuntary con. switches | 46 | 17 | 1 | 1 | 528 | 1761 | 6 |

# bfs

|  |  |
| --- | --- |
| Metric | C |
| Execution time (ms) | 0.083816 |
| Max RSS Memory(kb) | 64148 |
| Minor (frame) pf | 15689 |
| Voluntary con. switches | 6 |
| Involuntary con. switches | 1 |

# dfs

|  |  |
| --- | --- |
| Metric | C |
| Execution time (ms) | 0.005027 |
| Max RSS Memory(kb) | 32880 |
| Minor (frame) pf | 7889 |
| Voluntary con. switches | 7 |
| Involuntary con. switches | 1 |