|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Algorithm |  | **Time (ms)** | | | |
| **Elements** | **Digits** | **Random** | **Sorted** | **Reverted** |
| **Insertion** | 1 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 |
| 1000 | 2 | 0 | 0 | 9 |
| 10000 | 90 | 88 | 2 | 177 |
| 100000 | 7984 | 8838 | 234 | 18159 |
| 1000000 | 836145 | 916213 | 23829 | 1863900 |
| 10000000 | - | - | 2483719 | - |
| **Selection** | 1 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 |
| 1000 | 1 | 1 | 0 | 1 |
| 10000 | 99 | 99 | 106 | 119 |
| 100000 | 10385 | 10256 | 10230 | 12315 |
| 1000000 | 1022952 | 1010571 | 1056487 | 1211128 |
| 10000000 | - | - | - | - |
| **Shell Classic** | 1 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 |
| 1000 | 0 | 0 | 0 | 0 |
| 10000 | 1 | 2 | 1 | 1 |
| 100000 | 13 | 31 | 20 | 10 |
| 1000000 | 142 | 425 | 269 | 120 |
| 10000000 | 1599 | 6110 | 3993 | 1420 |
| **Shell Knuth** | **1** | **0** | **0** | **0** | **0** |
| **10** | **0** | **0** | **0** | **0** |
| **100** | **0** | **0** | **0** | **0** |
| **1000** | **0** | **0** | **0** | **0** |
| **10000** | **0** | **1** | **1** | **1** |
| **100000** | **9** | **27** | **18** | **7** |
| **1000000** | **106** | **392** | **245** | **83** |
| **10000000** | **1108** | **6064** | **3448** | **997** |
| **Shell Ciura** | 1 | 1 | 1 | 1 | 1 |
| 10 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 |
| 1000 | 0 | 0 | 0 | 0 |
| 10000 | 0 | 1 | 1 | 0 |
| 100000 | 14 | 27 | 17 | 19 |
| 1000000 | 733 | 1006 | 200 | 1546 |
| 10000000 | 109192 | 125809 | 7963 | 250313 |
| **Heap** | 1 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 |
| 100 | 0 | 0 | 0 | 0 |
| 1000 | 0 | 0 | 0 | 0 |
| 10000 | 3 | 3 | 3 | 2 |
| 100000 | 35 | 44 | 37 | 34 |
| 1000000 | 395 | 538 | 448 | 454 |
| 10000000 | 4719 | 8371 | 5487 | 5173 |