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Course: CSC551 Algorithm

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Description:

This is the completed table of the isort question.

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| selection sort | | | | |
| N | # | tElapsed | tCPU | avgCPU |
| 10 | 5.03496e+06 | 6.099 | 3.015 | 5.98813e-07 |
| 100 | 352692 | 5.173 | 3.015 | 8.54854e-06 |
| 1000 | 5085 | 5.039 | 3.015 | 0.00059292 |
| 10000 | 53 | 5.079 | 3.047 | 0.0574906 |
| 100000 | 1 | 7.729 | 5.656 | 5.656 |
| 200000 | 1 | 25.856 | 23.344 | 23.344 |
| 300000 | 1 | 53.355 | 51.11 | 51.11 |
| 400000 | 1 | 94.816 | 92.015 | 92.015 |
| 500000 | 1 | 147.003 | 144.062 | 144.062 |
| 1000000 | 1 | 591.231 | 585.218 | 585.218 |
|  |  |  |  |  |
| insertion sort | | | | |
| N | # | tElapsed | tCPU | avgCPU |
| 10 | 5.72404e+06 | 6.101 | 3.015 | 5.26726e-07 |
| 100 | 3.14595e+06 | 6.124 | 3.015 | 9.58376e-07 |
| 1000 | 1.77798e+06 | 5.479 | 3.015 | 1.69575e-06 |
| 10000 | 230120 | 5.199 | 3.015 | 1.31019e-05 |
| 100000 | 1 | 9.707 | 7.64 | 7.64 |
| 200000 | 1 | 31.932 | 29.781 | 29.781 |
| 300000 | 1 | 70.422 | 67.516 | 67.516 |
| 400000 | 1 | 122.745 | 119.844 | 119.844 |
| 500000 | 1 | 192.101 | 187.515 | 187.515 |
| 1000000 | 1 | 791.059 | 770.047 | 770.047 |