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Quick Sort versus Insertion Sort

Insertion Sort

|  |  |
| --- | --- |
| size | time |
| 50 | 0 |
| 100 | 0.001 |
| 150 | 0.004 |
| 200 | 0.006 |
| 250 | 0.01 |
| 300 | 0.014 |
| 350 | 0.018 |
| 400 | 0.024 |
| 450 | 0.029 |
| 500 | 0.031 |

Quick Sort

|  |  |
| --- | --- |
| size | time |
| 50 | 0 |
| 100 | 0.001 |
| 150 | 0 |
| 200 | 0.001 |
| 250 | 0 |
| 300 | 0.001 |
| 350 | 0.001 |
| 400 | 0.001 |
| 450 | 0.002 |
| 500 | 0.002 |

Determinate Quick Sort versus Randomized Quick Sort with randomized values

Determinate Quick Sort

|  |  |
| --- | --- |
| size | time |
| 50 | 0 |
| 100 | 0 |
| 150 | 0 |
| 200 | 0.001 |
| 250 | 0 |
| 300 | 0 |
| 350 | 0.001 |
| 400 | 0.001 |
| 450 | 0.001 |
| 500 | 0.001 |
|  |  |

Randomized Quick Sort

|  |  |
| --- | --- |
| 50 | 0 |
| 100 | 0.001 |
| 150 | 0 |
| 200 | 0 |
| 250 | 0.001 |
| 300 | 0.001 |
| 350 | 0.001 |
| 400 | 0.001 |
| 450 | 0.001 |
| 500 | 0.001 |

Determinate Quick Sort versus Randomized Quick Sort with partially sorted values

Determinate Quick Sort

|  |  |
| --- | --- |
| size | time |
| 50 | 0 |
| 100 | 0.001 |
| 150 | 0.003 |
| 200 | 0.001 |
| 250 | 0.002 |
| 300 | 0.003 |
| 350 | 0.003 |
| 400 | 0.006 |
| 450 | 0.008 |
| 500 | 0.008 |

Randomized Quick Sort

|  |  |
| --- | --- |
| size | time |
| 50 | 0 |
| 100 | 0 |
| 150 | 0.001 |
| 200 | 0 |
| 250 | 0.001 |
| 300 | 0 |
| 350 | 0.002 |
| 400 | 0.001 |
| 450 | 0.001 |
| 500 | 0.001 |