Activity 2. Direct exchange or Bubble algorithm

|  |  |  |  |
| --- | --- | --- | --- |
| n | t ordered | t reversed | t random |
| 10000 | 575 | 1325 | 1389 |
| 2 \* 10000 | 2243 | 5475 | 5500 |
| 2\*\*2\*10000 | 9985 | 22391 | 23686 |
| 2\*\*3\*10000 | 38705 | OoT | OoT |
| 2\*\*4\*10000 | OoT | OoT | OoT |

Activity 3. Selection algorithm

|  |  |  |  |
| --- | --- | --- | --- |
| n | t ordered | t reversed | t random |
| 10000 | 490 | 773 | 502 |
| 2 \* 10000 | 2005 | 2202 | 1973 |
| 2\*\*2\*10000 | 7995 | 8815 | 8274 |
| 2\*\*3\*10000 | 33586 | 35819 | 30483 |
| 2\*\*4\*10000 | OoT | OoT | OoT |

Activity 4. Insertion algorithm

|  |  |  |  |
| --- | --- | --- | --- |
| n | t ordered | t reversed | t random |
| 10000 | LoR | 736 | 367 |
| 2 \* 10000 | LoR | 2902 | 1459 |
| 2\*\*2\*10000 | LoR | 11597 | 5853 |
| 2\*\*3\*10000 | LoR | 49273 | 23718 |
| 2\*\*4\*10000 | LoR | OoT | OoT |
| 2\*\*5\*10000 | LoR | OoT | OoT |
| 2\*\*6\*10000 | LoR | OoT | OoT |
| 2\*\*7\*10000 | LoR | OoT | OoT |
| 2\*\*8\*10000 | 60 | OoT | OoT |
| 2\*\*9\*10000 | 117 | OoT | OoT |
| 2\*\*10\*10000 | 238 | OoT | OoT |
| 2\*\*11\*10000 | 470 | OoT | OoT |
| 2\*\*12\*10000 | 938 | OoT | OoT |
| 2\*\*13\*10000 | 1898 | OoT | OoT |

Activity 5. Quicksort algorithm

|  |  |  |  |
| --- | --- | --- | --- |
| n | t ordered | t reversed | t random |
| 250000 | LoR | 59 | 124 |
| 2\*250000 | 102 | 112 | 251 |
| 2\*\*2\*250000 | 213 | 232 | 545 |
| 2\*\*3\*250000 | 433 | 477 | 1158 |
| 2\*\*4\*250000 | 907 | 1096 | 2596 |
| 2\*\*5\*250000 | 2481 | 2035 | 6178 |
| 2\*\*6\*250000 | 5067 | 4184 | 18199 |

Activity 6. Quicksort + Insertion algorithm

|  |  |
| --- | --- |
| n | t ordered |
| Quicksort |  |
| Quicksort+Insertion (k=5) |  |
| Quicksort+Insertion (k=10) |  |
| Quicksort+Insertion (k=20) |  |
| Quicksort+Insertion (k=30) |  |
| Quicksort+Insertion (k=50) |  |
| Quicksort+Insertion (k=100) |  |
| Quicksort+Insertion (k=200) |  |
| Quicksort+Insertion (k=500) |  |
| Quicksort+Insertion (k=1000) |  |