**Comparison**

**Task 3**

|  |  |  |
| --- | --- | --- |
| N | Insertion Sort | Merge Sort |
| 1000 | 0.00112 | 0.000921 |
| 5000 | 0.01701 | 0.001329 |
| 10000 | 0.07580 | 0.001230 |
| 20000 | 0.3485 | 0.012890 |
| 30000 | 0.6723 | 0.018930 |
| 40000 | 1.7462 | 0.028905 |
| 50000 | 1.9432 | 0.029202 |
| 60000 | 2.6883 | 0.031004 |

**Task 5**

|  |  |  |  |
| --- | --- | --- | --- |
| N | Insertion Sort | Merge Sort | Hybrid Merge Sort |
| 1000 | 0.00112 | 0.000921 | 0.000935 |
| 5000 | 0.01701 | 0.001329 | 0.000998 |
| 10000 | 0.07580 | 0.001230 | 0.001947 |
| 20000 | 0.3485 | 0.012890 | 0.003898 |
| 30000 | 0.6723 | 0.018930 | 0.008973 |
| 40000 | 1.7462 | 0.028905 | 0.01001 |
| 50000 | 1.9432 | 0.029202 | 0.01309 |
| 60000 | 2.6883 | 0.031004 | 0.01864 |
| 100000 | 6.4523 | 0.0563 | 0.047282 |