| SORTING ALGO | 1000 | 2500 | 5000 | 7500 | 10000 |
|---|---|---|---|---|---|
| BUBBLE SORT | 0.004722 | 0.025337 | 0.077932 | 0.16907 | 0.305881 |
| INSERTION SORT | 0.000703 | 0.007152 | 0.018898 | 0.064381 | 0.074613 |
| SELECTION SORT | 0.00353 | 0.022701 | 0.104946 | 0.274644 | 0.306035 |
| | | | | | |
| MERGE SORT | 5.41E-004 | 1.59E-003 | 1.68E-003 | 3.61E-003 | 0.006731 |
| QUICK SORT | 0.000381 | 0.001174 | 0.002741 | 0.00398 | 0.007006 |
| HEAP SORT | 0.001118 | 0.002316 | 0.003376 | 0.004157 | 0.005193 |
| | | | | | |
| SEARCHING ALGO | | | | | |
| BINARY SEARCH | 1.60E-005 | 8.00E-006 | | | |
| SEQUENTIAL SEARCH | | | | | |

| 25000 | 50000 | 75000 | 100000 | 250000 | 750000 | 1000000 |
|---|---|---|---|---|---|---|
| 2.12295 | 8.93003 | 21.2633 | 36.7271 | 230.649 | 2553.7 | |
| 0.451447 | 2.03604 | 4.13463 | 7.4117 | 48.2513 | 492.391 | |
| 2.10512 | 8.77707 | 20.264 | 43.5878 | 370.265 | 2054.99 | |
| | | | | | | |
| 0.01153 | 0.012187 | 0.015738 | 0.020346 | 0.055479 | 0.178287 | 0.241731 |
| 0.007967 | 0.01401 | 0.017735 | 0.023418 | 0.062879 | 0.203839 | 0.282439 |
| 0.008937 | 0.020355 | 0.031843 | 0.041302 | 0.111543 | 0.386427 | 0.547756 |

| 2500000 | 5000000 | 10000000 | 100000000 | 1000000000 |
|---------|---------|----------|-----------|------------|

| 0.753842 | 1.60751 | 3.27157 | 37.0089 |
|----------|---------|---------|---------|
| 1.73727 | 3.73936 | 8.41133 | 111.51 |
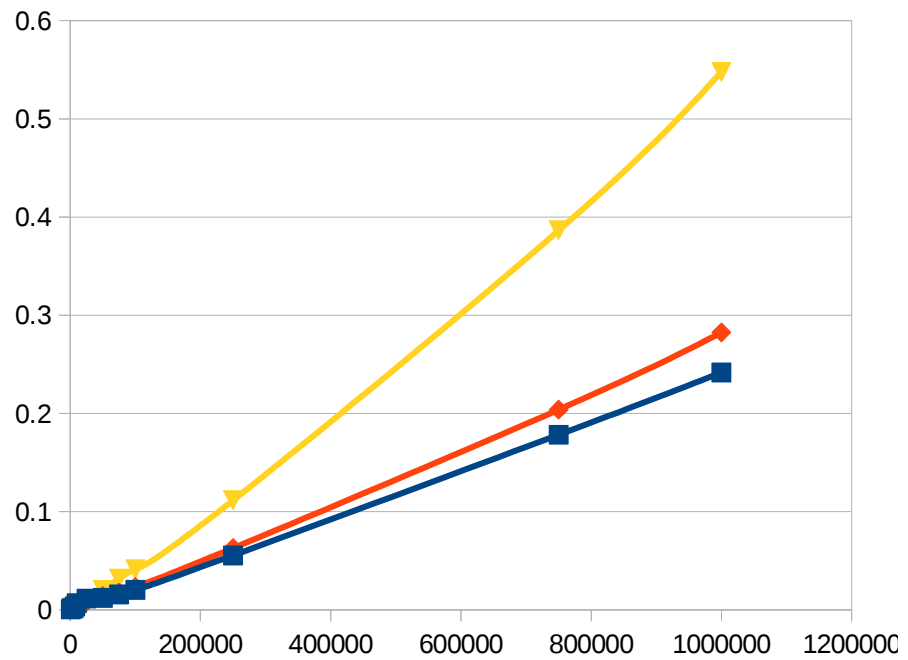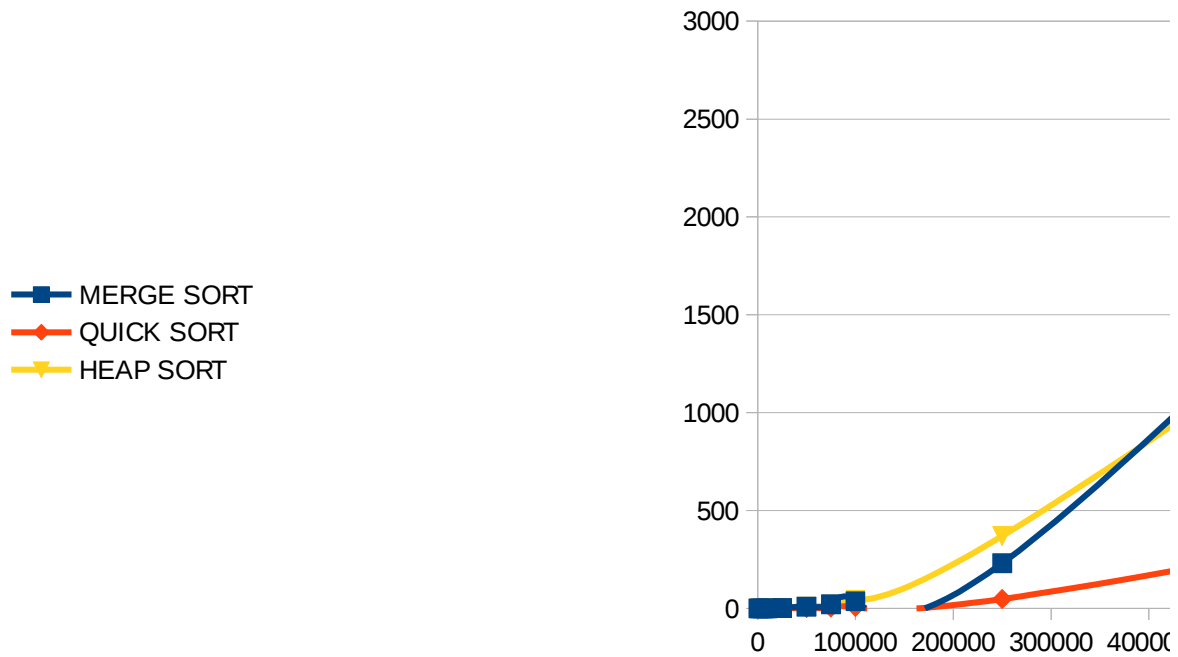


BUBBLE SORT
INSERTION SORT
SELECTION SORT

00 500000 600000 700000 800000