[[RANDOM]]

n | selection Sort | | Insertion Sort | | Merge Sort | | Heap Sort | | Quick Sort | | Counting sort |

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1000 0.005183 0.005592 0.000420 0.000582 0.000232 0.000055

2000 0.018444 0.019994 0.000894 0.001220 0.000445 0.000107

3000 0.042867 0.045175 0.001433 0.001992 0.000726 0.000167

4000 0.075603 0.083128 0.001958 0.002752 0.000986 0.000224

5000 0.121119 0.127451 0.002521 0.003610 0.001262 0.000283

6000 0.178247 0.183143 0.003145 0.004422 0.001526 0.000351

7000 0.256294 0.301734 0.003905 0.005457 0.001858 0.000431

8000 0.312426 0.356079 0.004383 0.006224 0.002164 0.000474

9000 0.406689 0.446076 0.004988 0.007015 0.002379 0.000537

10000 0.490522 0.577503 0.006810 0.010817 0.003460 0.000643

11000 0.577201 0.626621 0.006222 0.008944 0.002913 0.000660

12000 0.697456 0.888027 0.006968 0.010017 0.003723 0.000903

13000 0.795474 0.898285 0.007461 0.010735 0.003496 0.000792

14000 0.948905 1.012149 0.008084 0.011888 0.003958 0.000851

15000 1.217579 1.197768 0.008632 0.012428 0.004140 0.000923

16000 1.232322 1.336606 0.009262 0.013566 0.004544 0.000979

17000 1.405614 1.534752 0.010167 0.014466 0.004840 0.001048

18000 1.560680 1.647439 0.010754 0.015506 0.005103 0.001107

19000 1.741249 1.864104 0.011515 0.016111 0.005470 0.001172

20000 1.910384 2.085385 0.012022 0.017434 0.005698 0.001231

[[REVERSED]]

N | selection Sort | | Insertion Sort | | Merge Sort | | Heap Sort | | Quick Sort | | Counting sort |

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1000 0.004866 0.009696 0.000356 0.000510 0.000174 0.000052

2000 0.019440 0.039855 0.000759 0.001143 0.000374 0.000106

3000 0.044093 0.090430 0.001212 0.001813 0.000646 0.000165

4000 0.077639 0.164366 0.001653 0.002539 0.000814 0.000216

5000 0.126032 0.254029 0.002140 0.003279 0.001087 0.000275

6000 0.179734 0.384224 0.003112 0.004824 0.001620 0.000373

7000 0.237485 0.495686 0.003072 0.004986 0.001708 0.000415

8000 0.339092 0.710009 0.004100 0.006241 0.001938 0.000454

9000 0.395791 0.824613 0.004044 0.006365 0.001982 0.000485

10000 0.484731 1.017849 0.004565 0.007179 0.002307 0.000539

11000 0.588134 1.232492 0.005093 0.008095 0.002593 0.000600

12000 0.698822 1.464983 0.005546 0.008768 0.002920 0.000648

13000 0.821931 1.724574 0.006063 0.009625 0.003073 0.000708

14000 0.951582 1.993191 0.006533 0.010495 0.003268 0.000756

15000 1.090614 2.289207 0.007004 0.011342 0.003424 0.000808

16000 1.243576 2.605215 0.007567 0.012183 0.003581 0.000865

17000 1.401004 2.940877 0.008059 0.013121 0.003843 0.000924

18000 1.570583 3.294227 0.008629 0.013871 0.004177 0.000978

19000 1.754283 3.675020 0.009121 0.014775 0.004502 0.001034

20000 2.256343 4.072919 0.009692 0.015634 0.004853 0.001096

[[SORTED]]

N | selection Sort | | Insertion Sort | | Merge Sort | | Heap Sort | | Quick Sort | | Counting sort |

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1000 0.004660 0.000023 0.000348 0.000581 0.000172 0.000053

2000 0.018493 0.000046 0.000763 0.001285 0.000369 0.000105

3000 0.041833 0.000074 0.001202 0.002073 0.000648 0.000161

4000 0.086170 0.000110 0.002028 0.003252 0.000822 0.000220

5000 0.135565 0.000123 0.002391 0.004231 0.001157 0.000317

6000 0.181142 0.000156 0.002587 0.004604 0.001364 0.000322

7000 0.227671 0.000163 0.003051 0.005391 0.001527 0.000377

8000 0.303404 0.000193 0.003528 0.006265 0.001681 0.000439

9000 0.374084 0.000212 0.004004 0.007128 0.001953 0.000484

10000 0.461866 0.000233 0.004541 0.008036 0.002253 0.000539

11000 0.558717 0.000273 0.005016 0.008980 0.002552 0.000598

12000 0.748242 0.000281 0.005510 0.009884 0.002881 0.000655

13000 0.780778 0.000304 0.006039 0.010758 0.003048 0.000703

14000 0.903283 0.000326 0.006555 0.011765 0.003276 0.000757

15000 1.037824 0.000356 0.006984 0.012557 0.003441 0.000810

16000 1.328111 0.000405 0.008243 0.014238 0.003938 0.000874

17000 1.420475 0.000469 0.008565 0.015089 0.003901 0.000998

18000 1.589770 0.000445 0.009080 0.016079 0.004581 0.000998

19000 1.769305 0.000479 0.009559 0.017157 0.004759 0.001027

20000 1.965781 0.000490 0.010174 0.018384 0.005051 0.001270

[[NEARLY SORTED]]

N | selection Sort | | Insertion Sort | | Merge Sort | | Heap Sort | | Quick Sort | | Counting sort |

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1000 0.004829 0.001224 0.000432 0.000589 0.000209 0.000053

2000 0.019602 0.004653 0.000886 0.001452 0.000432 0.000108

3000 0.044378 0.011249 0.001590 0.002197 0.000685 0.000164

4000 0.090632 0.020646 0.002039 0.003177 0.000935 0.000229

5000 0.129210 0.035140 0.002708 0.004015 0.001196 0.000287

6000 0.174707 0.042269 0.002977 0.004616 0.001398 0.000327

7000 0.249459 0.060488 0.003629 0.005615 0.001717 0.000384

8000 0.305088 0.075047 0.004128 0.006313 0.001933 0.000443

9000 0.386090 0.100380 0.004790 0.007259 0.002206 0.000495

10000 0.475384 0.120251 0.005368 0.008241 0.002430 0.000553

11000 0.580771 0.150022 0.005913 0.009105 0.002723 0.000608

12000 0.686542 0.172640 0.006471 0.010050 0.002983 0.000669

13000 0.905571 0.205779 0.007090 0.010938 0.003274 0.000723

14000 1.049118 0.239543 0.007601 0.011877 0.003520 0.000776

15000 1.160151 0.292322 0.008883 0.013775 0.004295 0.000860

16000 1.209850 0.328936 0.009435 0.014213 0.004252 0.000926

17000 1.379154 0.354828 0.009610 0.014839 0.004435 0.000942

18000 1.561302 0.384544 0.010287 0.015658 0.004594 0.001004

19000 1.749184 0.444687 0.011030 0.017463 0.005027 0.001075

20000 1.876642 0.487616 0.011471 0.018084 0.005370 0.001119