

## Data Structure – The Report of Homework #7

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Scale	Insertion Sort	Merge Sort	Quick Sort	cstdlib Sort	STL Sort
100	1.9e-05	0.000103	2.2e-05	1.5e-05	1.1e-05
500	0.000355	0.000227	0.000104	5.5e-05	3.4e-05
1000	0.001197	0.000388	0.000169	0.000114	6.7e-05
5000	0.024420	0.002922	0.001000	0.000584	0.000393
10000	0.056527	0.005232	0.002610	0.002128	0.000613
50000	1.356810	0.020844	0.121230	0.010533	0.006146
100000	5.482110	0.030257	0.175860	0.015146	0.009391
500000	137.826	0.162428	0.090808	0.076581	0.041269
1000000	556.126	0.337159	0.194537	0.160685	0.086898
5000000	TLE	1.834290	1.07236	0.891209	0.480430

Note. Unit: num/second. (TLE=Time Limit Exceeds, over 5 mins.)

My CPU: Apple M1

My RAM: 8G

My OS: MacOS Sonoma 14.0

My Compiler: Apple clang version 14.0.3 (clang-1403.0.22.14.1)