

Selection Sort			Insertion Sort			Merge Sort		
List Size	Comparisons	Times (seconds)	List Size	Comparisons	Times (seconds)	List Size	Comparisons	Times (seconds)
1000 (observed)	499500	0.04	1000 (observed)	249072	0.041	1000 (observed)	8703	0.001
2000 (observed)	1999000	0.168	2000 (observed)	992896	0.128	2000 (observed)	19409	0.002
4000 (observed)	7998000	0.629	4000 (observed)	3999435	0.556	4000 (observed)	42774	0.008
8000 (observed)	31996000	2.628	8000 (observed)	16115122	2.152	8000 (observed)	93591	0.024
16000 (observed)	127992000	10.395	16000 (observed)	64321674	9.42	16000 (observed)	203267	0.064
32000 (estimated)	511984000	41.625	32000 (observed)	257455598	34.787	32000 (observed)	438603	0.087
100000 (estimated)	4999950000	406.49	100000 (estimated)	2999975000	339.717	100000 (estimated)	1536618	0.364
500000 (estimated)	124999750000	10162.25	500000 (estimated)	62499875000	8492.925	500000 (estimated)	8837121	2.127
1000000 (estimated)	499999500000	40649	1000000 (estimated)	249999250000	33971.7	1000000 (estimated)	18674232	4.602
10000000 (estimated)	49999995000000	4064900	10000000 (estimated)	24999997500000	3397170	10000000 (estimated)	220101127	80.744