qsort()

Number of elements	Random	Fully sorted	Reverse sorted	Partially sorted
100,000	18	3	12	16
1,000,000	145	40	44	51
10,000,000	808	332	274	438
100,000,000	8,543	2,745	2,884	5,444
500,000,000	47,297	12,637	13,861	26,906
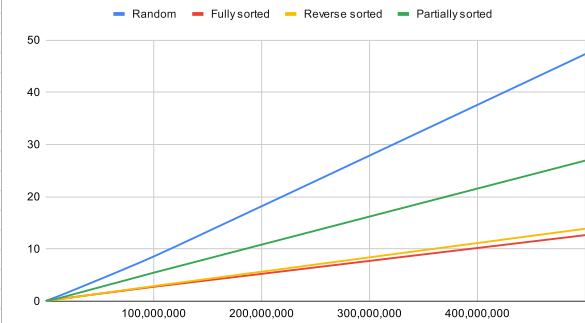
Heap sort

Number of elements	Random array	Fully sorted	Reverse sorted	Partially sorted
100,000	31	31	22	45
1,000,000	170	188	204	439
10,000,000	2,913	2,086	2,348	5,969
100,000,000	74,521	61,584	66,022	69,368
500,000,000	400,920	319,255	330,335	373,652
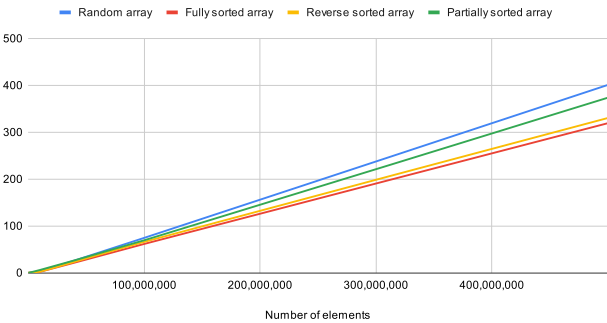
Merge sort

Number of elements	Random array	Fully sorted	Reverse sorted	Partially sorted
100,000	11	7	7	8
1,000,000	119	810	790	880
10,000,000	1,323	920	922	1,010
100,000,000	14,544	10,509	10,449	11,306
500,000,000	95,275	56,876	56,866	60,879

qsort()

Heap Sort

Merge Sort
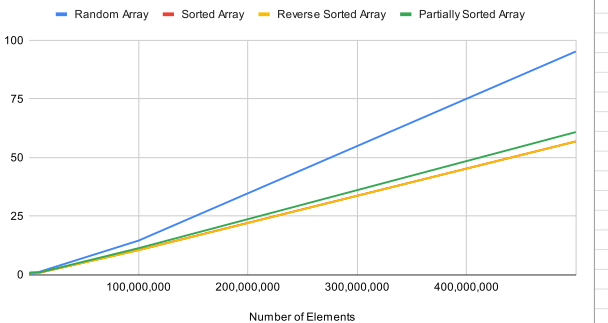
Selection sort

Number of elements	Random	Fully sorted	Reverse sorted	Partially sorted
10,000	139	158	184	159
100,000	15,555	14,532	14,691	15,546
200,000	60,632	62,739	58,207	60,474
300,000	136,387	136,129	131,067	135,901
400,000	234,073	243,170	243,580	239,151

Selection sort