Merge sort vs selection sort Timing analysis (stopping at p)

P	merge sort (ms)	selection sort (ms)
1	15	0
8	15	0
50	15	0
100	16	15
2500	15	203
5000	15	375
10000	15	781
20000	16	1499
40000	16	2655
50000	15	2921
75000	15	3703
100000	15	4124

Timing Analysis: Merge Sort vs Selection Sort (Top p Elements)
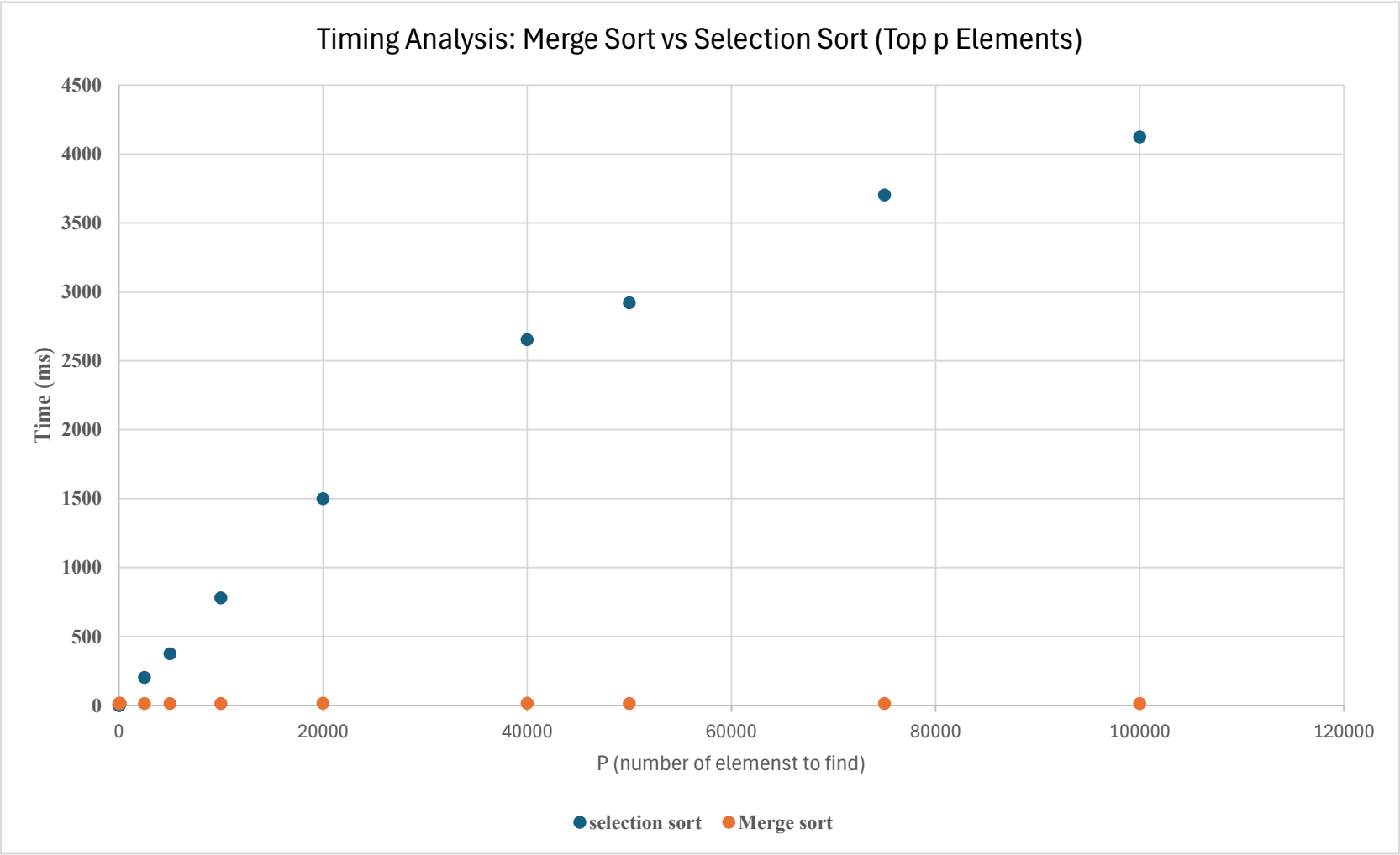
Merge sort vs selection sort Operational analysis (stopping at p)

P	merge sort	selection sort
1	1499984	300034
8	3599935	2400159
50	5498937	14997999
100	6198587	29988034
2500	9384987	740717748
5000	10067487	1462687538
10000	10732487	2850381402
20000	11362487	5400754301
40000	11922487	9601478154
50000	12132487	11251837547
75000	12307487	14065222271
100000	12482487	15003485208

Operational Analysis: Merge Sort vs Selection Sort (Top p Elements)