

Selection Sort

1. 50,000 elements: - Took 949 MS
2. 100,000 elements: - Took 2551 MS
3. 1,000,000 elements: - Took 124107 MS
4. 10,000,000 elements: - Took 2429431 MS

Has a lot of moving parts to it, not so effective for the amount of time it takes to write and run

Merge sort

5. 50,000 elements: - Took 18 MS
6. 100,000 elements: - Took 53 MS
7. 1,000,000 elements: - Took 217 MS
8. 10,000,000 elements: - Took 1820 MS

Took the shortest amount of time and is the most efficient

Insertion Sort

9. 50,000 elements: - Took 900 MS
10. 100,000 elements: - Took 3807 MS
11. 1,000,000 elements: - Took 409943 MS
12. 10,000,000 elements: - Took 4675139 MS

Took the longest amount of time