**TIME COMPLEXITY**

**Bubble Sort**: The time complexity of both average case and worst case is O(n2),where n is the number of items being sorted. The best case time complexity is O(n).

Bubble sort is practically suitable when n is smaller.

space complexity is O(1).

**Selection Sort**: Selecting the lowest element requires scanning all n elements, this takes n-1 comparisons and then swapping it into the first position.

Finding the next lowest element requires scanning the remaining n-1 elements and so on. The time complexity is . Each of these scans requires one swap of n-1 elements i.e., O(n^2).

space complexity is O(1).

**Merge Sort**: For n=1 time is constant otherwise time to merge sort n elements is equal to n/2 elements plus time to merge two arrays each n/2 elements, time to merge two arrays each n/2 elements is linear i.e., O(n log(n)).

space complexity is O(n).