

**Algo3****DT1 : Complexity**

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**Exercise 01:** Program the bubble sort algorithm for ascending order.

**Exercise 02:** Study the complexity of the above bubble sort algorithm.

**Exercise 03:** Program the selection sort algorithm for ascending order.

**Exercise 04:** Study the complexity of the above selection sort algorithm.

**Exercise 05:** Program the insertion sort algorithm for ascending order.

**Exercise 06:** Study the complexity of the above insertion sort algorithm.

**Exercise 07:** Program the merge sort algorithm for ascending order.

**Exercise 08:** Study the complexity of the above merge sort algorithm.

**Exercise 09:** Program the quick sort algorithm for ascending order.

**Exercise 10:** Study the complexity of the above quick sort algorithm.