- 1. Time and Space Complexity
- 2. Time Complexity
- 3. * Big Oh
- 4. Space Complexity

Time and Space Complexity

Time Complexity

Time complexity of the algorithm is the represented of the amount of time required by the algorithm to execut the completion.

Time complexity denoted by **t(n)**.

where,

• t(n) is time taken for input size n.

How to check alogrithim efficienecy:-

There are two type of check of alogrithim efficienency

Time factor

Time factor is calculated or measured by counting the number of key operations such as compersion of sorting alogrithom.

Space Factor

The Space is calculated or measured counting the by maxmum memory space required by algorithim.

Type of Notation for Time Complexity

There are four type of time complexity.

* Big Oh

Space Complexity

Space complexity of an algorithm represents the amount of memory space the algorithm needed in its life cycle.