*Time Complexity Analysis*

1. **Efficiency Of Algorithm**

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Two main measures for the efficiency of an algorithm are –

1. Processor and Memory
2. Complexity and Capacity
3. Time and Space //answer
4. Data and Space

**2. Theoretical Analysis**

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In theoretical analysis the time factor when determining the efficiency of algorithm is measured by-

1. Counting microseconds
2. Counting the number of statements in code
3. Counting the number of unit operations //answer
4. Counting the kilobytes of algorithm
5. **Time Complexity**

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If the number of primary operations of an algorithm that takes an array of size n as input are 3n^2 + 5n. The worst case time complexity of the algorithm will be ?

1. O(n^3)
2. O((n^2) \* logn)
3. O(n^2) //answer
4. O(n)
5. **Linear Search Time Complexity**

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##### The worst case time complexity of Linear search is :

1. O(n) //answer
2. O(n^2)
3. O(nlogn)
4. O(logn)
5. **Insertion Sort Time Complexity**

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Worst case time complexity of insertion sort is ?