**Time Complexity**

* Time complexity is defined in terms of how many times it takes to run a given algorithm, based on the length of the input. Time complexity is not a measurement of how much time it takes to execute a particular algorithm because such factors as a programming language, operating system, and processing power are also considered.

**Points**

* Always look for worst-case complexity
* Always look at the complexity of large data
* Always ignore the constants
* Always ignore the less dominating time
* O(1) < O(log n) < O(n) < O(n log n) < O(2^n)

**Space Complexity**

* When an algorithm is run on a computer, it necessitates a certain amount of memory space. The amount of memory used by a program to execute it is represented by its space complexity. Because a program requires memory to store input data and temporal values while running, the space complexity is auxiliary and input space.

