DATA STRUCTURES AND ALGORITHMS

Time complexity:

Five Important Guidelines for finding Time Complexity in a code

* Loops
* Nested Loops
* Consecutive Statements
* if–else statements
* Logarithmic statements

**Asymptotic Notations:** Asymptotic Notation is used to describe the running time of an algorithm - how much time an algorithm takes with a given input, n. There are three different notations: big O, big Theta (Θ), and big Omega (Ω).

**DATA STRUCTURES**

* **Linear**
  + **(Lists, Arrays, Linked lists, Stacks)**
* **Non-Linear**
  + **(Trees,Graphs...)**

**Arrays:**