Part03 Bonus

**5- what’s the default size of stack and heap and what are the consideration**

* **Stack Size**: Typically, 1MB per thread.
* **Heap Size**: Dynamic, limited by system memory.

**Considerations**:

* **Stack**: Fast, fixed size, used for local variables and method calls.
* **Heap**: Flexible, managed by garbage collector, used for objects and arrays.

**6- what is time complexity**

* **Big O Notation**: Describes algorithm efficiency.
  + **O(1)**: Constant time
  + **O(n)**: Linear time
  + **O(n^2)**: Quadratic time

Time complexity helps in choosing efficient algorithms for better performance.