**1. Explain the different types of linked lists (Singly Linked List, Doubly Linked List).**

Singly linked lists and doubly linked lists are two types of Linked lists. A singly-linked list is unidirectional linked list that consists of data and a link to the next element, while a doubly-linked list is a bidirectional linked list that contains a link to the previous node.

**2. Analyze the time complexity of each operation.**

The time complexity of each operation are the following:

* Add: time complexity is O(1)
* Search: time complexity is O(n)
* Traverse: Time Complexity is O(n)
* Delete: time complexity is O(n)

**3.Discuss the advantages of linked lists over arrays for dynamic data.**

The advantages of linked list over array is that linked List is a dynamic data structure which creates memory according to its requirement that is; it can change memory size at run time, so it has no memory loss. Array is a static data structure that is fixed in size and cannot change at run time, so it wastes memory.