Exercise\_5\_DSA\_Theory\_Solution

1. Understand Linked Lists :

Singly Linked List : It is the simplest type of linked list in which every node contains some data and a pointer to the next node of the same data type.

Doubly Linked List : A doubly linked list or a two-way linked list is a more complex type of linked list that contains a pointer to the next as well as the previous node in sequence.

Analysis :

Time Complexity : O(n)

Unlike arrays, which have a fixed size, linked lists allow us to add or remove elements without any predefined limit.