**Day 1 (23rd May 2025)**

1. **Two Sum II - Input Array Is Sorted**

**Problem**: Given a sorted array of integers, return the indices of the two numbers such that they add up to a specific target.

**Input**:

nums = [2, 7, 11, 15]

target = 9

**Output**:

[1, 2]

1. **Subarray Sum Equals K**

**Problem**: Given an array of integers and a target sum k, return the total number of continuous subarrays whose sum equals to k.

**Input**:

nums = [1, 2, 3]

k = 3

**Output**:

2

1. **Next Greater Element**

**Problem**: Given a circular array, find the next greater number for every element.

**Input**:

nums = [231, 312]

**Output**:

[312, -1]

1. **Add Two Numbers (Linked List)**

**Problem**: You are given two non-empty linked lists representing two non-negative integers. The digits are stored in reverse order, and each node contains a single digit. Add the two numbers and return the sum as a linked list.

**Input**:

l1 = [2, 4, 3] (represents 342)

l2 = [5, 6, 4] (represents 465)

**Output**:

[7, 0, 8] (represents 807)

1. **Reorder List (Linked List)**

**Problem**: Reorder a linked list from L0 → L1 → … → Ln-1 → Ln to L0 → Ln → L1 → Ln-1 → L2 → Ln-2 → ….

1. **Remove Nth Node From End of List (Linked List)**

**Problem**: Given a linked list, remove the nth node from the end and return its head.

**Input**:

head = [1, 2, 3, 4, 5]

n = 2

**Output**:

[1, 2, 3, 5]

1. **Longest Substring Without Repeating Characters**

**Problem**: Given a string, find the length of the longest substring without repeating characters.

**Input**:

s = "abcabcbb"

**Output**:

3 (The longest substring is "abc")

1. **Group Anagrams**

**Problem**: Given an array of strings, group the anagrams together.

**Input**:

strs = ["eat", "tea", "tan", "ate", "nat", "bat"]

**Output**:

[["eat","tea","ate"], ["tan","nat"], ["bat"]]

1. **Rearrange a Number to Find the Minimum Possible Number in O(n) and Constant Space**

**Problem**: Rearrange the digits of a given number to form the smallest possible number in **O(n)** time and **constant space**.

**Input**:

n = 324

**Output**:

234

**Input**:

n = 50221

**Output**:

12205