Week 15- Day 4 : Coding Challenge

(Maximum marks -15)

Q-1) Minimum Moves to Equal Array Elements
https://leetcode.com/problems/minimum-moves-to-equal-array-elements/
(5 marks)

(Easy)

Given an integer array `nums` of size `n`, return *the minimum number of moves required to make all array elements equal*.

In one move, you can increment `n - 1` elements of the array by `1`.

Example 1:

`Input: nums = [1,2,3]`

`Output: 3`

`Explanation: Only three moves are needed (remember each move increments two elements):`

`[1,2,3] => [2,3,3] => [3,4,3] => [4,4,4]`

Q-2) Longest Substring Without Repeating Characters (5 marks)
https://leetcode.com/problems/longest-substring-without-repeating-characters/

(Medium)

Given a string s, find the length of the longest substring without repeating characters.

Example 1:

Input: s = "abcabcbb"

Output: 3

Explanation: The answer is "abc", with the length of 3.

Example 2:

Input: s = "bbbbb"

Output: 1

Explanation: The answer is "b", with the length of 1.

Q-3) Minimum Operations to Reduce X to Zero (5 marks)

https://leetcode.com/problems/minimum-operations-to-reduce-x-to-zero/

(Medium)

You are given an integer array nums and an integer x. In one operation, you can either remove the leftmost or the rightmost element from the array nums and subtract its value from x. Note that this modifies the array for future operations.

Return *the minimum number of operations to reduce* `x` *to exactly* `0` *if it is possible, otherwise, return* `-1`.

Example 1:

Input: nums = [1,1,4,2,3], x = 5

Output: 2

Explanation: The optimal solution is to remove the last two elements to reduce x to zero.

Marks distribution:
Question 1,2 and 3 carry 5 marks each.