Problems on Array - 3

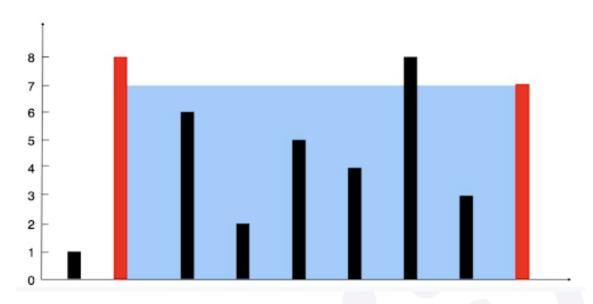
Assignment Questions







Q1. Given an integer m, n, and n integers, return true if the number of unique integers among the n (Easy) integers is greater than or equal to m, else return false. (Integers appearing multiple times are all considered as I unique integer) Input 1: 5 10 1214521122 Output 1: false Input 2: 9 145098373268111523 Output 2: true Q2. Given an integer array arr, return the number of consecutive sequences (subarrays) with (Medium) odd sum. Input 1: N = 3[1,3,5] Output 1: Input 2: N = 3[2,4,6]Output 2: Q3. You are given an integer array height of length n. There are n vertical lines drawn such that the (Medium) two endpoints of the ith line are (i, 0) and (i, height[i]). Find two lines that together with the x-axis form a container, such that the container contains the Return the maximum amount of water a container can store. Input 1: n = 9height = [1,8,6,2,5,4,8,3,7]Output 1: 49



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Input 2:
n = 2
height = [1,1]
Output 2:
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Q4. Given a 1-indexed array of integers numbers that is already sorted in non-decreasing order, (Medium) find two numbers such that they add up to a specific target number. Return the indices of the two numbers added by one. Return -1 if pair does not exist.

Input 1:

n = 4numbers = [2,7,11,15]target = 9Output 1: 12

Input 2: n = 2numbers = [-1,0]target = -1Output 2: 12



Q5. Given an array sorted in increasing order, return an array of squares of each number sorted in increasing order.

(Hard)

Input 1:

N = 6

Arr[] = [-5, -2, -1, 0, 4, 6]

Output 1:

[0, 1, 4, 16, 25, 36]

Input 2:

N = 5

Arr[] = [2, 1, 0, 4, 6]

Output 2:

[0, 1, 4, 16, 36]