ROUND -2

Sr. No	Level	Questions	Input	Output	Sign
1.	M	Given a string, find the length of the longest substring without repeating characters.	“abcabcbb”	3	
2.	M	Given a string, check whether it is a palindrome after removing all non-alphanumeric characters and ignoring case.	“A man, a plan, a canal: Panama”	True	
3.	M	Given an array, rotate it to the right by K positions.	N= 5, k = 2 [1, 2, 3, 4, 5]	[4, 5, 1, 2, 3]	
4.	M	Swap Nodes in Pairs	[1,2,3,4]	[2,1,4,3]	
5.	M	Integer to Roman (Without Map) I: 1, V: 5, X: 10, L: 50, C: 100, D: 500, M: 1000	3749	MMMDCCXLIX	
6.	M	Given an integer array nums, return an array answer such that answer[i] is equal to the product of all the elements of nums except nums[i]. (without using the division operator)	nums = [1,2,3,4]	[24,12,8,6]	
7.	H	Regular Expression Matching '.' Matches any single character. '*' Matches zero or more of the preceding element. The matching should cover the entire input string (not partial).	a. string = “aa”, pattern = “a*b*” b. string = “aa”, pattern = “a”	a. True b. False	
8.	H	For each node in a circular linked list, print the next greater value in clockwise order or -1. (Without use of Linked list class)	N = 5 [3 1 4 2 5]	4 4 5 5 -1	

9.	H	You are given an array of boxes where each number represents a color. You may experience several rounds to remove boxes until there is no box left. Each time you can choose some continuous boxes with the same color (i.e., composed of k boxes, k >= 1), remove them and get k * k points. Return the maximum points you can get.	[1,3,2,2,2,3,4,3,1]	23	
10.	H	An unsorted integer array nums of size n is given. The array may contain negative integers, zero, duplicate values, and integers greater than n. Write a program to determine the smallest positive integer that is not present in the given array. The order of elements in the array is random, and the array may contain repeated values. sorting the array is strictly prohibited. The original array may be modified during execution. If all positive integers from 1 to n are present in the array, the program should return n + 1.	[3, 4, -1,1]	2	