

Day-3

March 11, 2023

Practice Problems

Strings:

Q.1 Reverse a string.

Test cases:

1. hello => olleh
2. racecar => racecar

Q.2 Run length encoding

Test cases:

1. wwwaaaadexxxxxx => w4a3d1e1x6
2. aaaaaaav => a7v1

Arrays:

Q.1 Given an array H representing heights of buildings. You have to count the buildings which will see the sunrise (Assume : Sun rise on the side of array starting point).

Note : Height of building should be strictly greater than height of buildings in left in order to see the sun

Test case:

Input:

N = 5

H[] = {7, 4, 8, 2, 9}

Output: 3

Q.2 Given an array nums of integers, return how many of them contain an even number of digits.

Test case:

Input:

A[] = {11,134,5564,12,19,111}

Output : 4

Matrix:

Q.1 Convert 1D Array Into 2D Array.

First take an array input then take dimensions of 2D array, then make a 2D array of that dimension.

Q.2 Richest Customer Wealth.

You are given an $m \times n$ integer grid `accounts` where `accounts[i][j]` is the amount of money the i^{th} customer has in the j^{th} bank. Return the wealth that the richest customer has.

A customer's wealth is the amount of money they have in all their bank accounts. The richest customer is the customer that has the maximum wealth.

Test case:

Input: `accounts = [[1,5],[7,3],[3,5]]`

Output: 10