DAY 16

INTERVIEW BIT PROBLEMS:

1. Rain Water Trapped

Given n non-negative integers representing an elevation map where the width of each bar is 1, compute how much water it is able to trap after raining.

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Input Format
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```
The only argument given is integer array A.
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Output Format

Return the total water it is able to trap after raining..

```
For Example
Input 1:
    A = [0,1,0,2,1,0,1,3,2,1,2,1]
Output 1:
```

Explaination 1: In this case, 6 units of rain water (blue section) are being trapped.

CODE :

PYTHON

```
class Solution:
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```
# @param A: tuple of integers
# @return an integer
def trap(self, A):
    n=len(A)
    previous=A[0]
    p_ind=0
    rain_h20=0
    temp=0
    for i in range(1,n):
        if A[i]>=previous:
            previous=A[i]
            p_ind=i
            temp=0
        else:
            rain_h20+=previous-A[i]
            temp+=previous-A[i]
    if p_ind(n-1):
        rain_h20-=temp
        previous=A[n-1]
        for k in range(n-1,p_ind-1,-1):
            if A[k]>=previous:
                previous=A[k]
            else:
                rain_h20+=previous-A[k]
    return rain h20
```