Graphical user interface, text, application

Description automatically generated

My idea :

To score marks

2 points :   
the numbers in the array before that number smaller than that number &  
the numbers in the array after that number larger than that number

1 points:

(if 2 points are not obtained)  
the first number in the array before that number smaller than that number &  
the first number in the array after that number larger than that number

Else

0 point

We go through the array in 2 way at the same time

First way:

Go through the array from the beginning and check whether the number is larger than the one right before it and keeping the target max num in the sub array we check if it cannot pass the check

If not -> 0 marks is score  
and update the target max number

If yes  
-> if the number before it score 2 or larger than the target max number -> score 2  
else -> score 1

Second way:

Go through the array from the beginning and check whether the number is lower than the one right after it and keeping the target min num in the sub array we check if it cannot pass the check

If not -> 0 marks is score  
and update the target min number

If yes  
-> if the number after it score 2 or smaller than the target min number -> score 2  
else -> score 1

Then we get two array of score

If one of it = 0 -> the beauty of that num = 0

Otherwise : the beauty of that num = the quotient of sum of two score divided by 2

Most Voted Idea :

Using 2 array

(min\_)1 array storing the max\_num of the left sub array regarding the j th entry  
(max\_)1 array storing the min\_num of the right sub array regarding the j th entry

If min\_[j] < nums[j] < max\_[j]

Score += 2

elIf nums[j-1] < nums[j] < nums[j+1]

Score += 1

Else

Score += 0