

Problem List

AcceptedEditorialSubmissionsSolutions

1063. Number of Valid Subarrays

Premium

Solved

HardTopicsCompaniesHint

Given an integer array `nums`, return the number of non-empty **subarrays** with the leftmost element of the subarray not larger than other elements in the subarray.

A **subarray** is a **contiguous** part of an array.

Example 1:

Input: `nums = [1,4,2,5,3]`
Output: 11
Explanation: There are 11 valid subarrays: `[1]`, `[4]`, `[2]`, `[5]`, `[3]`, `[1,4]`, `[2,5]`, `[1,4,2]`, `[2,5,3]`, `[1,4,2,5]`, `[1,4,2,5,3]`.

Example 2:

Input: `nums = [3,2,1]`
Output: 3
Explanation: The 3 valid subarrays are: `[3]`, `[2]`, `[1]`.

Example 3:

Input: `nums = [2,2,2]`
Output: 6
Explanation: There are 6 valid subarrays: `[2]`, `[2]`, `[2]`, `[2,2]`, `[2,2]`, `[2,2,2]`.

Constraints:

1 <= `nums.length` <= 5 * 10⁴

0 <= `nums[i]` <= 10⁵

Seen this question in a real interview before? 1/5

YesNo

Accepted 13.1K | Submissions 16.7K | Acceptance Rate 78.6%

Topics

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Hint 1

Hint 2

Similar Questions

Discussion (8)

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</> Code

Python3Auto

```
1 class Solution:
2     def validSubarrays(self, nums: List[int]) -> int:
3
4         length = len(nums)
5         count = length
6
7         for i in range(0, length):
8             j = i + 1
9             prev = nums[i]
10            while j < length:
11                if prev <= nums[j]:
12                    count += 1
13                    j += 1
14                else:
15                    break
16
17            return count
18
19
```

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TestcaseTest Result

AcceptedRuntime: 29 ms

Case 1

Case 2

Case 3

Input

nums =
[1,4,2,5,3]

Output

11

Expected