CountSubArray

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Points: 100 (partial)
Time limit: 0.5s
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Allowed languages
C

Subarray First Element Problem

Problem Description

Given an array `arr[]` of size `N`, your task is to determine the number of subarrays in which the first element is **not greater than** every other element in that subarray. In other words, for every subarray that starts at index `i` and ends at index `j` (where `i ≤ j`), the following condition must hold:

```
arr[i] ≤ arr[k] for all i < k ≤ j
```

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A subarray is defined as a contiguous segment of the array.

Input

- The first line of input contains a single integer `N`, representing the size of the array.
- The second line contains `N` space-separated integers, representing the elements of the array `arr[]`.

Output

Output a single integer: the number of subarrays that satisfy the condition.

Constraints

- 1 ≤ N ≤ 5*10^5
- 1 ≤ arr[i] ≤ 10^9 for each valid index i

```
4
1 2 3 4
```

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Sample Output

```
10
```

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Clarifications

Request clarification

No clarifications have been made at this time.