



# CountSubArray

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## **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  $i \le j$ ), the following condition must hold:

 $arr[i] \le arr[k]$  for all  $i < k \le j$ 

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**

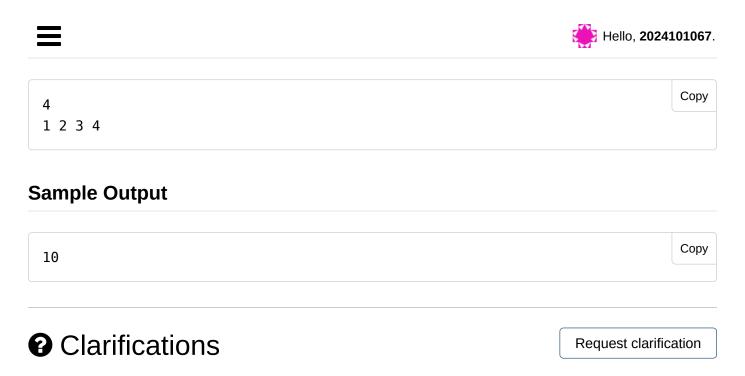
Output a single integer: the number of subarrays that satisfy the condition.

#### **Constraints**

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

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No clarifications have been made at this time.

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