Court Complete Subarrays in an Array

2799. Count Complete Subarrays in an Array

Solved 🤡



You are given an array nums consisting of positive integers.

We call a subarray of an array complete if the following condition is satisfied:

• The number of distinct elements in the subarray is equal to the number of distinct elements in the whole array.

Return the number of complete subarrays.

A subarray is a contiguous non-empty part of an array.

Example 1:

Input: nums = [1,3,1,2,2]

Output: 4

Explanation: The complete subarrays are the following: [1,3,1,2], [1,3,1,2,2], [3,1,2] and [3,1,2,2].

Example 2:

Input: nums = [5,5,5,5]

Output: 10

Explanation: The array consists only of the integer 5, so any subarray is complete. The number of subarrays that we can choose is 10.

Constraints:

- 1 <= nums.length <= 1000
- 1 <= nums[i] <= 2000

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

Yes No

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class Solution of

int count Complete Subarrays (vector Cint 78 nums) { unordered_set Cint 75;

for (inti: nums) s. insert(i);

int size = s. size ();

int ans = 0;

int 12 - A.

11 N VIW- 0 int lo = 0; unordered - map (int, int > mp; for (int i= 0; i (numy. size (); (++)) int x = nums(i); mp[x]++; cohile (mp.size() = = size){ ans+= (nums.size()-1); mp(nums [lo]) --; if ([mp[nums[lo]]) mp. erase (nums[lo]); lo ++; } 4 return ans; 47.

T. C. O(n) S. C. O(n)