1852. Distinct Numbers in Each Subarray Person

Solved

Medium \times Topics \textbf{1} Companies \tilde{\Q} Hint

Given an integer array nums and an integer k, you are asked to construct the array ans of size n-k+1 where ans[i] is the number of **distinct** numbers in the subarray nums[i:i+k-1] = [nums[i], nums[i+h-1]].

Return the array ans.

Example 1:

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

Output: [3,2,2,2,3]

Explanation: The number of distinct elements in each subarray goes as follows:

- nums[0:2] = [1,2,3] so ans[0] = 3
- nums[1:3] = [2,3,2] so ans[1] = 2
- nums[2:4] = [3,2,2] so ans[2] = 2
- nums[3:5] = [2,2,1] so ans[3] = 2
- nums[4:6] = [2,1,3] so ans[4] = 3

Example 2:

Input: nums = [1,1,1,1,2,3,4], k = 4

Output: [1,2,3,4]

Explanation: The number of distinct elements in each subarray goes as follows:

- nums[0:3] = [1,1,1,1] so ans[0] = 1
- nums[1:4] = [1,1,1,2] so ans[1] = 2
- nums[2:5] = [1,1,2,3] so ans[2] = 3
- nums[3:6] = [1,2,3,4] so ans[3] = 4

Constraints:

- 1 <= k <= nums.length <= 10⁵
- 1 <= nums[i] <= 10⁵

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

Yes No

Topics

Accepted 11.2K Submissions 14.7K Acceptance Rate 75.8%

Companies

Hint 1

Hint 2

Hint 3

Discussion (4)