## 1852. Distinct Numbers in Each Subarray Premium Medium ♥ Topics ② Companies ۞ 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+1], ..., nums [i+k-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] = 3Example 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 <= 10<sup>5</sup> • 1 <= nums[i] <= 10<sup>5</sup> Seen this question in a real interview before? 1/5 Yes No Acceptance Rate 71.6% Accepted 7.8K Submissions 10.9K ♥ Topics Array Hash Table Sliding Window Companies 0 - 6 months Amazon 2 Keep a frequency map of the elements in each window. O Hint 2 When the frequency of the element is 0, remove it from the map. O Hint 3 The answer to each window is the size of the map. Discussion (1)

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