3231. Minimum Number of Increasing Subsequence to Be Removed Hard ♥ Topics ♥ Hint Given an array of integers nums, you are allowed to perform the following operation any number of times: • Remove a **strictly increasing subsequence** from the array. Your task is to find the **minimum** number of operations required to make the array **empty**. Example 1: **Input:** nums = [5,3,1,4,2]Output: 3 **Explanation:** We remove subsequences [1, 2], [3, 4], [5]. Example 2: **Input:** nums = [1,2,3,4,5]Output: 1 Example 3: **Input:** nums = [5,4,3,2,1]Output: 5 Constraints: • 1 <= nums.length <= 10⁵ • 1 <= nums [i] <= 10^5 Seen this question in a real interview before? 1/5 Yes No Acceptance Rate 55.0% Accepted 335 Submissions 609 ♥ Topics Array Binary Search Q Hint 1 Find the longest non-increasing subsequence. O Hint 2 No two elements of this sequence can be removed in one operation. O Hint 3

Discussion (0)

Try to prove that the answer is equal to the length of this sequence.