

1708. Largest Subarray Length K Premium

Easy Topics Companies Hint

An array `A` is larger than some array `B` if for the first index `i` where `A[i] != B[i]`, `A[i] > B[i]`.

For example, consider `0`-indexing:

- `[1,3,2,4] > [1,2,2,4]`, since at index `1`, `3 > 2`.
- `[1,4,4,4] < [2,1,1,1]`, since at index `0`, `1 < 2`.

A subarray is a contiguous subsequence of the array.

Given an integer array `nums` of **distinct** integers, return the **largest** subarray of `nums` of length `k`.

Example 1:

Input: `nums = [1,4,5,2,3]`, `k = 3`
Output: `[5,2,3]`
Explanation: The subarrays of size 3 are: `[1,4,5]`, `[4,5,2]`, and `[5,2,3]`. Of these, `[5,2,3]` is the largest.

Example 2:

Input: `nums = [1,4,5,2,3]`, `k = 4`
Output: `[4,5,2,3]`
Explanation: The subarrays of size 4 are: `[1,4,5,2]`, and `[4,5,2,3]`. Of these, `[4,5,2,3]` is the largest.

Example 3:

Input: `nums = [1,4,5,2,3]`, `k = 1`
Output: `[5]`

Constraints:

- `1 <= k <= nums.length <= 105`
- `1 <= nums[i] <= 109`
- All the integers of `nums` are **unique**.

Follow up: What if the integers in `nums` are not distinct?

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

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Hint 1

Search for the largest integer in the range `[0, n - k]`

Hint 2

This integer is the first element in the subarray. You should take it with the `k - 1` elements after it.

Discussion (2)