2832. Maximal Range That Each Element Is Maximum in It Premium

Solved ●

Medium Topics Companies Hint

You are given a **0-indexed** array `nums` of **distinct** integers.

Let us define a **0-indexed** array `ans` of the same length as `nums` in the following way:

- `ans[i]` is the **maximum** length of a subarray `nums[l..r]`, such that the maximum element in that subarray is equal to `nums[i]`.

Return *the array* `ans`.

Note that a **subarray** is a contiguous part of the array.

Example 1:

> **Input:** nums = [1,5,4,3,6]
> **Output:** [1,4,2,1,5]
> **Explanation:** For nums[0] the longest subarray in which 1 is the maximum is nums[0..0] so ans[0] = 1.
> For nums[1] the longest subarray in which 5 is the maximum is nums[0..3] so ans[1] = 4.
> For nums[2] the longest subarray in which 4 is the maximum is nums[2..3] so ans[2] = 2.
> For nums[3] the longest subarray in which 3 is the maximum is nums[3..3] so ans[3] = 1.
> For nums[4] the longest subarray in which 6 is the maximum is nums[0..4] so ans[4] = 5.

Example 2:

> **Input:** nums = [1,2,3,4,5]
> **Output:** [1,2,3,4,5]
> **Explanation:** For nums[i] the longest subarray in which it's the maximum is nums[0..i] so ans[i] = i + 1.

Constraints:

- `1 <= nums.length <= 10^5`
- `1 <= nums[i] <= 10^5`
- All elements in `nums` are distinct.

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

Yes No

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Hint 1

Hint 2

Hint 3

Hint 4

Hint 5

Hint 6

Discussion (10)