2289. Steps to Make Array Non-decreasing

Description

You are given a **0-indexed** integer array `nums`. In one step, **remove** all elements `nums[i]` where `nums[i - 1] > nums[i]` for all `0 < i < nums.length`.

Return *the number of steps performed until* `nums` *becomes a* ***non-decreasing*** *array*.

Example 1:

```
Input: nums = [5,3,4,4,7,3,6,11,8,5,11]
Output: 3
Explanation: The following are the steps performed:
- Step 1: [5, 3 ,4,4,7, 3 ,6,11, 8 , 5 ,11] becomes [5,4,4,7,6,11,11]
- Step 2: [5, 4 ,4,7, 6 ,11,11] becomes [5,4,7,11,11]
- Step 3: [5, 4 ,7,11,11] becomes [5,7,11,11]
[5,7,11,11] is a non-decreasing array. Therefore, we return 3.
```

Example 2:

```
Input: nums = [4,5,7,7,13]
Output: 0
Explanation: nums is already a non-decreasing array. Therefore, we return 0.
```

Constraints:

- `1 <= nums.length <= 10^5`
- `1 <= nums[i] <= 10^9`