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 <= 105
* 1 <= nums[i] <= 109