2529. Maximum Count of Positive Integer and Negative Integer

Description

Given an array `nums` sorted in **non-decreasing** order, return *the maximum between the number of positive integers and the number of negative integers.*

- In other words, if the number of positive integers in `nums` is `pos` and the number of negative integers is `neg`, then return the maximum of `pos` and `neg`.

Note that `0` is neither positive nor negative.

Example 1:

```
Input: nums = [-2,-1,-1,1,2,3]
Output: 3
Explanation: There are 3 positive integers and 3 negative integers. The maximum count among them is 3.
```

Example 2:

```
Input: nums = [-3,-2,-1,0,0,1,2]
Output: 3
Explanation: There are 2 positive integers and 3 negative integers. The maximum count among them is 3.
```

Example 3:

```
Input: nums = [5,20,66,1314]
Output: 4
Explanation: There are 4 positive integers and 0 negative integers. The maximum count among them is 4.
```

Constraints:

- `1 <= nums.length <= 2000`
- `-2000 <= nums[i] <= 2000`
- `nums` is sorted in a **non-decreasing order**.

Follow up: Can you solve the problem in `O(log(n))` time complexity?