

Problem 2529: Maximum Count of Positive Integer and Negative Integer

Problem Information

Difficulty: Easy

Acceptance Rate: 74.38%

Paid Only: No

Tags: Array, Binary Search, Counting

Problem 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?

Code Snippets

C++:

```
class Solution {  
public:  
    int maximumCount(vector<int>& nums) {  
  
    }  
};
```

Java:

```
class Solution {  
public int maximumCount(int[] nums) {  
  
}  
}
```

Python3:

```
class Solution:  
    def maximumCount(self, nums: List[int]) -> int:
```