Problem 2441: Largest Positive Integer That Exists With Its Negative

Problem Information

Difficulty: Easy
Acceptance Rate: 74.54%
Paid Only: No
Tags: Array, Hash Table, Two Pointers, Sorting

Problem Description

Given an integer array `nums` that **does not contain** any zeros, find **the largest positive** integer `k` such that `-k` also exists in the array.

Return _the positive integer_ `k`. If there is no such integer, return `-1`.

Example 1:

Input: nums = [-1,2,-3,3] **Output:** 3 **Explanation:** 3 is the only valid k we can find in the array.

Example 2:

Input: nums = [-1,10,6,7,-7,1] **Output:** 7 **Explanation:** Both 1 and 7 have their corresponding negative values in the array. 7 has a larger value.

Example 3:

Input: nums = [-10,8,6,7,-2,-3] **Output:** -1 **Explanation:** There is no a single valid k, we return -1.

Constraints:

* `1 <= nums.length <= 1000` * `-1000 <= nums[i] <= 1000` * `nums[i] != 0`

Code Snippets

C++:

```
class Solution {
public:
int findMaxK(vector<int>& nums) {

}
};
```

Java:

```
class Solution {
public int findMaxK(int[] nums) {

}
}
```

Python3:

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