2441. Largest Positive Integer That Exists With Its Negative

Easy 964 20 Add to List Share

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`

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C++ Autocomplete

```cpp
class Solution {
public:
    int findMaxK(vector<int>& nums) {
        unordered_set<int>numSet(nums.begin(), nums.end());
        int maxK = -1;

        for(int n : nums){
            if(n > 0 && numSet.count(-n)){
                maxK = max(maxK, n);
            }
        }
        return maxK;
    }
};
```

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