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Premium

Description

Solution

Discuss (999+)

Submissions

136. Single Number

Easy8974309Add to ListShare

Given a **non-empty** array of integers `nums`, every element appears *twice* except for one. Find that single one.

You must implement a solution with a linear runtime complexity and use only constant extra space.

Example 1:

Input: `nums = [2,2,1]`
Output: `1`

Example 2:

Input: `nums = [4,1,2,1,2]`
Output: `4`

Example 3:

Input: `nums = [1]`
Output: `1`

Constraints:

- `1 <= nums.length <= 3 * 104`
- `-3 * 104 <= nums[i] <= 3 * 104`
- Each element in the array appears twice except for one element which appears only once.

Accepted 1,515,914 | Submissions 2,200,464

Seen this question in a real interview before?

Yes

No

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```
1 class Solution {
2     public int singleNumber(int[] nums) {
3
4         int length = nums.length;
5         int result = nums[0];
6
7         for(int i = 1; i < length; i++){
8             result ^= nums[i];
9         }
10
11         return result;
12     }
13 }
```

Testcase

Run Code Result

Debugger

Accepted

Runtime: 0 ms

Your input

[2,2,1]

Output

1

Diff

Expected

1

Console

Use Example Testcases

Run Code

Submit

https://leetcode.com/problems/single-number/

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