

Topics to discuss

Bit manipulation Problem -1.

- Find the unique / single element.



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136. Single Number

Easy

Topics

Companies

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`

```
static int solution (int [] nums) {  
    int ans = 0;  
    for (int i = 0 ; i < nums.length ; i++) {  
        ans = ans ^ nums[i];  
    }  
    return ans;  
}
```

T.C = $O(n)$

S.C = $O(1)$

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