136. Single Number

Easy Topics Companies Hint

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 * 10^4`
- `-3 * 10^4 <= nums[i] <= 3 * 10^4`
- Each element in the array appears twice except for one element which appears only once.