**136. Single Number**

Easy

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

**Follow up:** Could you implement a solution with a linear runtime complexity and without using extra memory?

**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.