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.