



### ***Task(15.3)***

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:**

- $1 \leq \text{nums.length} \leq 3 * 10^4$
- $-3 * 10^4 \leq \text{nums}[i] \leq 3 * 10^4$
- Each element in the array appears twice except for one element which appears only once.

**link to the problem on leetcode:**

<https://leetcode.com/problems/single-number/description/>

# Thank You