

## **136. Single Number**

### **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:**

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