

## Challenge 9.2: Single Number

Given a non-empty array of integers, every element **appears twice except one** element. Your task is to find that **single element**.

### Examples:

Input 1:

3  
2 2 1

Output 1:

1

Input 2:

7  
1 2 3 4 3 2 1

Output 2:

4

### NOTE:

- Your algorithm should have a **linear run-time complexity**
- Your solution will be appreciated if it is implemented **without extra space**.