Lonely Integer



Given an array of integers, where all elements but one occur twice, find the unique element.

Example

$$a = [1, 2, 3, 4, 3, 2, 1]$$

The unique element is 4.

Function Description

Complete the *lonelyinteger* function in the editor below.

lonelyinteger has the following parameter(s):

• int a[n]: an array of integers

Returns

• int: the element that occurs only once

Input Format

The first line contains a single integer, n, the number of integers in the array. The second line contains n space-separated integers that describe the values in a.

Constraints

- $1 \le n < 100$
- ullet It is guaranteed that n is an odd number and that there is one unique element.
- $0 \leq a[i] \leq 100$, where $0 \leq i < n$.