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

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


## Sample Input 0

1
1

## Sample Output 0

## Explanation 0

There is only one element in the array, thus it is unique.

## Sample Input 1

## Sample Output 1

2

## Explanation 1

We have two 1 's, and 2 is unique.

## Sample Input 2

5
$\begin{array}{lllll}0 & 0 & 1 & 2 & 1\end{array}$

## Sample Output 2

2

## Explanation 2

We have two 0 's, two 1 's, and one 2.2 is unique.

