

# Lonely Integer



## Problem Statement

There are  $N$  integers in an array  $A$ . All but one integer occur in pairs. Your task is to find out the number that occurs only once.

## Input Format

The first line of the input contains an integer  $N$  indicating number of integers.  
The next line contains  $N$  space separated integers that form the array  $A$ .

## Constraints

$1 \leq N < 100$   
 $N \% 2 = 1$  (  $N$  is an odd number )  
 $0 \leq A[i] \leq 100, \forall i \in [1, N]$

## Output Format

Output  $S$ , the number that occurs only once.

## Sample Input:1

```
1
1
```

## Sample Output:1

```
1
```

## Sample Input:2

```
3
1 1 2
```

## Sample Output:2

```
2
```

## Sample Input:3

```
5
0 0 1 2 1
```

## Sample Output:3

```
2
```

## Explanation

In the first input, we see only 1 element and that element is the answer (1).

In the second input, we see 3 elements, 1 is repeated twice. The element that occurs only once is 2.  
In the third input, we see 5 elements, 1 and 0 are repeated twice. And the element that occurs only once is 2.