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Lonely Integer ■



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Consider an array of n integers, $A = [a_0, a_1, \dots, a_{n-1}]$, where all but one of the integers occur in pairs. In other words, every element in A occurs exactly twice except for one unique element.

Given \boldsymbol{A} , find and print the unique element.

Input Format

The first line contains a single integer, n, denoting the number of integers in the array. The second line contains n space-separated integers describing the respective values in A.

Constraints

- $1 \le n < 100$
- It is guaranteed that n is an odd number.
- $ullet 0 \leq a_i \leq 100$, where $0 \leq i < n$.

Output Format

Print the unique number that occurs only once in ${m A}$ on a new line.

Sample Input 0

1

Sample Output 0

1

Explanation 0

The array only contains a single 1, so we print 1 as our answer.

Sample Input 1

3 1 1 2

Sample Output 1

2

Explanation 1

We have two 1's and one 2. We print 2, because that's the only unique element in the array.

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Sample Input 2

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

Sample Output 2

2

Explanation 2

We have two 0's, two 1's, and one 2. We print 2, because that's the only unique element in the array.

```
Submissions:89553
Max Score:20
Difficulty: Easy

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Bitwise XOR

Caching
```

```
Current Buffer (saved locally, editable) & 🗗
                                                                                           Java 7
 1 ▼ import java.io.*;
 2 import java.util.*;
 3 import java.text.*;
 4 import java.math.*;
 5
   import java.util.regex.*;
 6
 7 ▼ public class Solution {
 8
 9 ▼
        static int lonelyinteger(int[] a) {
10
            // Complete this function
11
12
        public static void main(String[] args) {
13 ▼
            Scanner in = new Scanner(System.in);
14
15
            int n = in.nextInt();
16 ▼
            int[] a = new int[n];
            for(int a_i = 0; a_i < n; a_i++){</pre>
17 ▼
18 ▼
                 a[a_i] = in.nextInt();
19
20
            int result = lonelyinteger(a);
21
            System.out.println(result);
22
        }
23
    }
24
                                                                                                                     Line: 1 Col: 1
```

<u>↑ Upload Code as File</u> Test against custom input

Run Code

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