

# **Lonely Integer ■**



|--|

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.
- $0 \leq a_i \leq 100$ , where  $0 \leq i < n$ .

#### **Output Format**

Print the unique number that occurs only once in  $\boldsymbol{A}$  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.

#### Sample Input 2

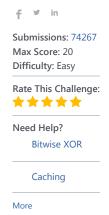
5 0 0 1 2 1

### 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.



Run Code

Submit Code



```
C#
 Current Buffer (saved locally, editable) & 5
                                                                                                                 0
5
    using System;
6
    using System.Collections.Generic;
   using System.IO;
8 ▼ class Solution {
9
10
        static int lonelyinteger(int[] a) {
11
12
            int unico = 0;
13
14
             for (int i = 0; i < a.Length; i++)
15
                 unico \wedge= a[i];
16
17
18
19
             return unico;
20
       static void Main(String[] args) {
21 ▼
22
             int res;
23
24
             int _a_size = Convert.ToInt32(Console.ReadLine());
25
             int[] _a = new int [_a_size];
             int _a_item;
26
27
             String move = Console.ReadLine();
             String[] move_split = move.Split(' ');
28
             for(int _a_i = 0; _a_i < move_split.Length; _a_i++) {</pre>
29
30
                 _a_item = Convert.ToInt32(move_split[_a_i]);
31
                 _a[_a_i] = _a_item;
32
33
             res = lonelyinteger(_a);
34
             Console.WriteLine(res);
35
36
37
                                                                                                        Line: 32 Col: 10
```

Congrats, you solved this challenge!

✓ Test Case #0
✓ Test Case #1
✓ Test Case #2
✓ Test Case #3
✓ Test Case #4
✓ Test Case #5
✓ Test Case #8

Next Challenge

**1** Upload Code as File

Test against custom input

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