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

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

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Difficulty Easy
Max Score 100
Submitted By 23079

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```
#!/bin/python3

import math
import os
import random
import re
import sys

#
# Complete the 'lonelyinteger' function below.
#
# The function is expected to return an INTEGER.
# The function accepts INTEGER_ARRAY a as parameter.
#

def lonelyinteger(a):
    # Write your code here

if __name__ == '__main__':
    fptr = open(os.environ['OUTPUT_PATH'], 'w')

    n = int(input().strip())

    a = list(map(int, input().rstrip().split()))

    result = lonelyinteger(a)

    fptr.write(str(result) + '\n')

    fptr.close()
```

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