https://course.acciojob.com/idle?question=c8de15f0-1685-4101-b74c -67ea4a321d08

EASY

Max Score: 30 Points

Missing Element in AP

Find the missing element from an ordered array arr[], consisting of N elements representing an Arithmetic Progression(AP).

Note: There will always be only one missing element.

Input

First line contains an integer n denoting size of array.

Second line contains n spaced integers denoting elements of array.

Output

Print a single integer denoting the missing element of AP.

Example 1

Input

6 2 4 8 10 12 14

Output

6

Explanation

6 is missing from the increasing AP of 2.

Example 2

```
Input

5
3 8 13 23 28

Output

15

Explanation

18 is missing from the increasing AP of 5.
```

Constraints

```
1<=n<=10^6
1<=arr[i]<=10^6
```

Topic Tags

Arrays

My code

```
// n java
import java.util.*;
import java.lang.*;
import java.io.*;
public class Main
{
```