Which is missing?   P89851_en

Write a program that reads sequences with all the numbers between 1 and *n* but one, and tells which one is missing.

Input

Input consists of several sequences. Every sequence begins with a number *n* between 1 and 10^4 followed by $n - 1$ natural numbers. Every number between 1 and *n* appears exactly once, except one of them, which is missing.

Output

For every sequence, print the missing number.

Sample input 1

```
5    3 2 1 5
2    1
10   5 4 6 7 1 2 9 10 8
```

Sample output 1

```
4
2
3
```

Problem information

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