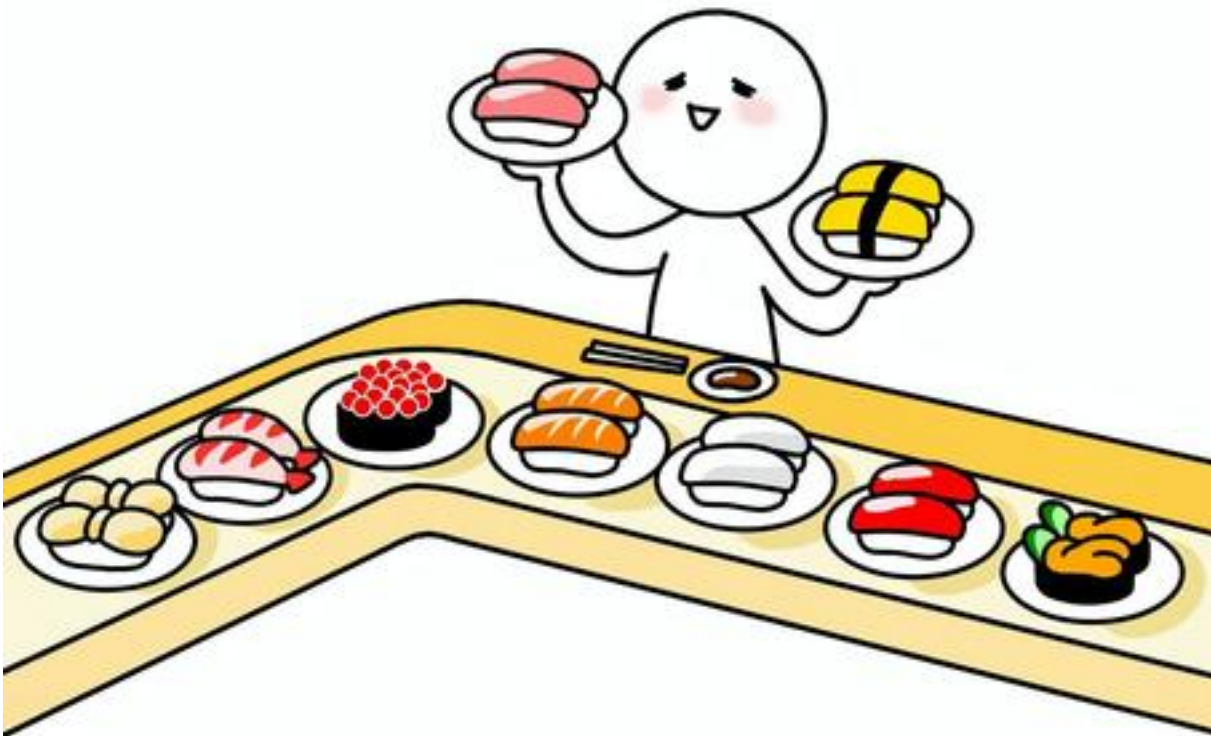


Sushi Conveyor Belt Saga: The Missing Plate!

time limit per test: 1 second
memory limit per test: 256 megabytes
input: standard input
output: standard output
points: 100 · problem code: sushi1 · author: jash



You and your foodie friend **Mike** love visiting your favorite sushi conveyor belt restaurant. The plates, numbered from 1 to $N + 1$, move past in order. But just as you reach out to grab your favorite plate, **Mike snatches it first!** Now, you're left wondering **which plate is missing from the sequence**. Can you figure it out?

Input

- An integer $N + 1$ — the total number of plates initially.
- A line with N space-separated integers — the remaining plates on the conveyor belt.

Output

Output a single integer — the missing plate number that Mike grabbed.

Constraints

- $1 \leq N \leq 10^5$
- The input will always be a valid sequence with exactly one missing plate.

Example 1

Input

```
5
1 2 4 5
```

Output

```
3
```

Example 2

Input

```
6
2 3 1 5 6
```

Output

```
4
```