Problem - A - Codeforces





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# A. Increasing Sequence

time limit per test: 1 second memory limit per test: 256 megabytes input: standard input output: standard output

You are given a sequence  $a_1, a_2, \ldots, a_n$ . A sequence  $b_1, b_2, \ldots, b_n$  is called *good*, if it satisfies all of the following conditions:

- $b_i$  is a positive integer for  $i=1,2,\ldots,n$ ;
- $b_i \neq a_i$  for  $i = 1, 2, \ldots, n$ ;
- $b_1 < b_2 < \ldots < b_n$ .

Find the minimum value of  $b_n$  among all good sequences  $b_1, b_2, \ldots, b_n$ .

### Input

Each test contains multiple test cases. The first line contains the number of test cases t ( $1 \le t \le 100$ ). The description of the test cases follows.

The first line of each test case contains a single integer n ( $1 \le n \le 100$ ).

The second line of each test case contains n integers  $a_1, a_2, \ldots, a_n$   $(1 \le a_i \le 10^9)$ .

### Output

For each test case, print a single integer — the minimum value of  $b_n$  among all good sequences b.

# Example

input	Сору
3	
5 1 3 2 6 7	
4 2 3 4 5	
1	
output	Сору
output	сору
8	
4	
2	

## Note

In the first test case, b=[2,4,5,7,8] is a good sequence. It can be proved that there is no good b with  $b_5<8$ .

In the second test case, b = [1, 2, 3, 4] is an optimal good sequence.

In the third test case, b=[2] is an optimal good sequence.

# Codeforces Round 899 (Div. 2) Finished Practice







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