

Warmup Problem A

One of the trickiest problems in computer programming is sorting. You will spend hours of effort trying to obtain a sort that runs both quickly and correctly. Sometimes the latter is challenging. Write a program that determines if an input sequence is indeed sorted in ascending order.

Input Specification

On the first line of the input is T , the number of test cases. For each test case, the first line is N , the number of list elements. N elements follow, each an integer.

Output Specification

On a separate line for each test case, in order, output "PASS" if the input is indeed sorted in ascending order; otherwise, output "FAIL".

Constraints

$$0 \leq T \leq 100$$

$$0 \leq N \leq 10000$$

Each integer is in the range of signed 32-bit integers.

Example Input

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

Example Output

```
PASS
FAIL
PASS
```

Explanation

Sequence #1 only has one element. It is trivially sorted. Sequence #2 is (5,2), which is sorted, but not in ascending order. No number for Jakucha. Sequence #3 is (1, 2, 3). If you don't think this is sorted, you should probably not be participating in this class.