## Problem A. Stair, Peak, or Neither?

**Time limit** 1000 ms **Mem limit** 262144 kB

You are given three digits a,b, and c. Determine whether they form a stair, a peak, or neither.

- A *stair* satisfies the condition a < b < c.
- A peak satisfies the condition a < b > c.

## Input

The first line contains a single integer t ( $1 \le t \le 1000$ ) — the number of test cases.

The only line of each test case contains three digits a, b, c ( $0 \le a, b, c \le 9$ ).

## Output

For each test case, output "STAIR" if the digits form a stair, "PEAK" if the digits form a peak, and "NONE" otherwise (output the strings without quotes).

## **Examples**

Input	Output
7	STAIR
1 2 3	NONE
3 2 1	PEAK
1 5 3	PEAK
3 4 1	NONE
0 0 0	NONE
4 1 7	STAIR
4 5 7	