

A. Stair, Peak, or Neither?

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

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 ($1 \leq t \leq 1000$) — the number of test cases.

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

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).

Example

input	Copy
7	
1 2 3	
3 2 1	
1 5 3	
3 4 1	
0 0 0	
4 1 7	
4 5 7	
output	Copy
STAIR	
NONE	
PEAK	
PEAK	
NONE	
NONE	
STAIR	

Codeforces Round 937 (Div. 4)

Finished

→ Practice?

Want to solve the contest problems after the official contest ends? Just register for practice and you will be able to submit solutions.

Register for practice

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

Start virtual contest

→ Problem tags

implementation

No tag edit access

→ Contest materials

Announcement (en)

Tutorial (en)

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