

# Type of triangle

[Wersja polska](#)

[English version](#)

[Deutsche Fassung](#)

Given lengths **a**, **b** and **c** of triangle's sides determine it's type.

## Input

There is unknown number of tests. Each of them consists of one line in which appear three integers: **a**, **b** and **c** (all  $< 10000$ ).

## Output

For each test print one word:

- right - if triangle is right
- obtuse - if triangle is obtuse
- acute - if triangle is acute
- none - if there is no such a triangle

## Example

**Input:**

1 1 10  
3 4 5  
2 3 4  
7 7 7

**Output:**

none  
right  
obtuse  
acute