

# Type of triangle

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[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
```