# 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:  $\mathbf{a}$ ,  $\mathbf{b}$  and  $\mathbf{c}$  (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

234

777

#### **Output:**

none

right

obtuse

acute