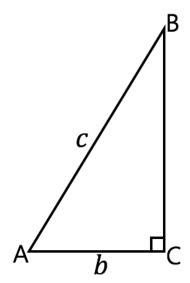
# Right triangle 1



There is a right triangle  $\triangle ABC$  where  $\angle C = 90^{\circ}$ . You are given c (the length of  $\overline{AB}$ ) and b (the length of  $\overline{AC}$ ). Please write a program that finds the length of  $\overline{BC}$ .

### Input

Your input consists of an arbitrary number of lines, but no more than 5,000.

Each line consists of two integers b ( $1 \le b \le 100$ ) and c ( $b < c \le 100$ ), separated by a space.

The end of input is indicated by a line containing only the value -1.

#### **Output**

For each input line, print a line that contains the length of  $\overline{BC}$ . Print 5 digits (even if it is zero) after the decimal point. Your answer will be considered correct if and only if  $|(your\ answer) - (our\ answer)| \le 10^{-5}$ .

## **Example**

Standard input	Standard output
4 5	3.00000
13 57	55.49775
1 2	1.73205
-1	

#### **Time Limit**

1 second.