

Problem C. Calculate in C++

Once upon a time, you were teaching C++ to your friend. On that day, you taught operations in C++, especially addition, subtraction, division and the modulus operator. In the end of that day, your friend finally understood all the operations! So you decided to test your friend like this: given two positive integers a and b , print the values of " $a + b$ ", " $a - b$ ", " a / b ", and " $a \% b$ ". To test your friend, you must be able to calculate all those values. So, given two positive integers a and b , write a program that calculates all those values.

Input

The input consists of an arbitrary number of records, but no more than 200. Each record is a line that contains two positive integers a and b ($1 \leq a, b \leq 32,768$). The end of input is indicated by a line containing only the value -1.

Output

Calculate the values of " $a + b$ ", " $a - b$ ", " a / b ", and " $a \% b$ ", and print in the format below:

```
a + b = ???  
a - b = ???  
a / b = ???  
a % b = ???
```

Example

Standard input	Standard output
2 10 2017 724 -1	2 + 10 = 12 2 - 10 = -8 2 / 10 = 0 2 % 10 = 2 2017 + 724 = 2741 2017 - 724 = 1293 2017 / 724 = 2 2017 % 724 = 569

Time Limit

1 second.