



## **Problem: Modular Operations**

Time Limit 1 second

## **Problem**

You are given three positive integers a, b and c. We know that there are four arithmetic operations: a + b, a - b, a x b,  $a \div b$ . We want to calculate these values modulo c, as the result of the calculation may be super large. However, sometimes it is impossible to find  $a \div b \mod c$  (as we mentioned in the lecture). So, we ask you to write a program that calculates the value of  $(a + b) \mod c$ ,  $(a - b) \mod c$  and  $(a \times b) \mod c$ .

## Input

Your input consists of a single line. For each line, three positive integers a, b and c  $(1 \le a, b, c \le 109)$  are given.

## **Output**

Print (a+b) mod c, (a-b) mod c and (a x b) mod c, separated by a space.

Sample Input 1	Sample Output 1
123 45 67	34 11 41

Sample Input 2	Sample Output 2
1999 1 21	5 3 4