# **Problem D. Restoring Three Numbers**

**Time limit** 1000 ms **Mem limit** 262144 kB

Polycarp has guessed three positive integers a, b and c. He keeps these numbers in secret, but he writes down four numbers on a board in arbitrary order — their pairwise sums (three numbers) and sum of all three numbers (one number). So, there are four numbers on a board in random order: a+b, a+c, b+c and a+b+c.

You have to guess three numbers a,b and c using given numbers. Print three guessed integers in any order.

Pay attention that some given numbers a, b and c can be equal (it is also possible that a=b=c).

#### Input

The only line of the input contains four positive integers  $x_1, x_2, x_3, x_4$  ( $2 \le x_i \le 10^9$ ) — numbers written on a board in random order. It is guaranteed that the answer exists for the given number  $x_1, x_2, x_3, x_4$ .

## Output

Print such positive integers a, b and c that four numbers written on a board are values a+b, a+c, b+c and a+b+c written in some order. Print a, b and c in any order. If there are several answers, you can print any. It is guaranteed that the answer exists.

### **Examples**

Input	Output
3 6 5 4	2 1 3

Input	Output
40 40 40 60	20 20 20

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Input	Output
201 101 101 200	1 100 100