B. Chess Game

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

It's second day in "Ramadan". After **Mora** and **Hoho** broke their fast, They decided to play a chess game. However, both of them like to play with black pieces. Therefore, **Hoho** decided to challenge **Mora** to solve a mathematics problem. If **Mora** could solve this problem he will play with the black pieces.

The problem was as follows: **Hoho** has **3** positive numbers let them A, B and C. He will give **Mora** another **4** numbers let them X_1, X_2, X_3 and X_4. Then **Hoho** asked **Mora** to determine the **3** numbers that **Hoho** got.

Hoho told **Mora** that the **4** numbers has been generated using the following operations: **A + B**, **A + C**, **B + C** and **A + B + C**.

Mora is seeking your help. Help **Mora** to determine the **3** numbers.

Input

Only one line contains four number X_1, X_2, X_3 and X_4 ($2 \le X_1, X_2, X_3, X_4 \le 10^9$)

Note: The numbers will be given in a random order.

Output

Print the three positive numbers A, B and C in any order. If there are several answers, you can print any.

Note: It's guaranteed that the answer exists.

Example

input
4 3 5 6
output
3 2 1