CMPUT 274 - Tangible Computing **Fall 2019**
Morning Problem: Balancing Funds

Description

Three friends have recently taken a joint trip. To keep payments simple, only one person paid for each activity: e.g. one friend bought three concert tickets, another friend paid for the gas.

But the trip is over now and it is time to balance expenses. Say the three friends paid a, b, and c dollars respectively. So it is only fair if each person pays $(a+b+c)/3$ dollars. So they transfer money between themselves to ensure this happens.

How far is each friend's current amount paid from this average amount $(a+b+c)/3$? Oh, luckily, $a+b+c$ is always a multiple of 3.

Input

The input will be 3 space-separated integers a, b, and c. Each will be a value between 0 and 10^8.

Output

Your program should output one line consisting of integers x, y, and z separated by a single space between each. These values should be the unique **nonnegative** integers representing the difference between a, b, and c (respectively) and the average $(a+b+c)/3$.

Sample Input 1

```
4 4 4
```

Sample Output 1

```
0 0 0
```

Explanation: All friends paid exactly the average amount.

Sample Input 2

```
1 2 3
```

Sample Output 2

```
1 0 1
```

Explanation: Friend 1 paid 1 less than the average, friend 2 already paid the average, and friend 3 paid 1 more than the average.

Sample Input 3

```
0 7 2
```

Sample Output 3

```
3 4 1
```

Explanation: Friend 1 paid 3 less than the average, friend 2 paid 4 more than the average, and friend 3 paid 1 less than the average.