Counting Molecules

locked

by *IEEEXtreme*

Your task is to count the number of molecules in a cup of soda which contains distilled water, carbon dioxide, and glucose. You have a machine that counts the number of atoms of carbon, hydrogen, and oxygen in a given sample.

Input Format

The input consists of a single line with three space separated integers: *c*, *h*, and *o*

where

c is the count of carbon atoms

h is the count of hydrogen atoms

o is the count of oxygen atoms

Constraints

$0 \le c, h, o < 10^{10}$

Output Format

If the number of atoms **is consistent** with a mixture containing **only water, carbon dioxide, and glucose molecules**, the output should consist of a single line containing three space separated integers: the number of water molecules, the number of carbon dioxide molecules, and the number of glucose molecules.

If the number of atoms **is not consistent** with a mixture containing **only water, carbon dioxide, and glucose molecules**, the output should consist of a line containing the word `Error`

Sample Input

```
10 0 20
```

Sample Output

```
0 10 0
```

Explanation

The input indicates that there are 10 carbon atoms and 20 oxygen atoms. The only way that this could occur would be if there were 0 water molecules, 10 carbon dioxide molecules, and 0 glucose molecules.

Note that there are additional sample inputs available if you click on the `Run Code` button.

Max Score: 62pts dynamic

Submissions: 1579

Max Score: 62

Difficulty: Hard

More

Current Buffer (saved locally, editable) BASH

```
1
```

Upload Code as File Test against custom input Run Code Submit Code