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IEEEExtreme 10.0 > Counting Molecules

Counting Molecules

locked

by IEEEExtreme

Problem

Submissions

Leaderboard

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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

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

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

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Current Buffer (saved locally, editable)

Python 3 ▾



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 [Upload Code as File](#)☐ Test against custom input

Run Code

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