



# Counting Molecules

locked

by IEEEExtreme

Problem

Submissions

Leaderboard

Discussions

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

[More](#)

**Current Buffer** (saved locally, editable)  

C++



```
1 #include <cmath>
2 #include <cstdio>
3 #include <vector>
4 #include <iostream>
5 #include <algorithm>
```

```
6 using namespace std;
7
8
9 int main() {
10     /* Enter your code here. Read input from STDIN. Print output to STDOUT */
11     return 0;
12 }
13
```

Line: 1 Col: 1

[Upload Code as File](#)

Test against custom input

[Run Code](#)[Submit Code](#)

Join us on IRC at [#hackerrank](#) on freenode for hugs or bugs.

[Contest Calendar](#) | [Interview Prep](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [Terms Of Service](#) | [Privacy Policy](#)