



## C. Line

time limit per test: 1 second  
 memory limit per test: 256 megabytes

A line on the plane is described by an equation  $Ax + By + C = 0$ . You are to find any point on this line, whose coordinates are integer numbers from  $-5 \cdot 10^{18}$  to  $5 \cdot 10^{18}$  inclusive, or to find out that such points do not exist.

### Input

The first line contains three integers  $A$ ,  $B$  and  $C$  ( $-2 \cdot 10^9 \leq A, B, C \leq 2 \cdot 10^9$ ) — corresponding coefficients of the line equation. It is guaranteed that  $A^2 + B^2 > 0$ .

### Output

If the required point exists, output its coordinates, otherwise output  $-1$ .

### Examples

input

2 5 3

output

6 -3

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### → Attention

The package for this problem was not updated by the problem writer or Codeforces administration after we've upgraded the judging servers. To adjust the time limit constraint, a solution execution time will be multiplied by 2. For example, if your solution works for 400 ms on judging servers, then the value 800 ms will be displayed and used to determine the verdict.

### Codeforces Beta Round 7

Finished

Practice



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Language: GNU G++23 14.2 (64 bit, ms) ▼

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Submission	Time	Verdict
<a href="#">324371379</a>	Jun/14/2025 15:49	Accepted

→ **Problem tags**

math

number theory

\*1800

No tag edit access

→ **Contest materials**

- Codeforces Beta Round #7



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