# 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 $C$ ($-2 \cdot 10^9 \le A, B, C \le 2 \cdot 10^9$) — 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 | Copy |
|---|---|
| 2 5 3 | |

| output | Copy |
|---|---|
| 6 -3 | |

**Codeforces Beta Round 7**

**Finished**

Practice

⭐

**→ Virtual participation**

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

[ Start virtual contest ]

**→ Clone Contest to Mashup**

You can clone this contest to a mashup.

[ Clone Contest ]

**→ Submit?**

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

Choose file:  [ Choose File ] No file chosen

[ Submit ]

**→ Last submissions**

| Submission | Time | Verdict |
|---|---|---|
| 324371379 | Jun/14/2025 15:49 | Accepted |

## → Contest materials

- Codeforces Beta Round #7  ✕