PROBLEMS   SUBMIT   STATUS   STANDINGS   CUSTOM TEST

A. Ebony and Ivory

time limit per test: 2 seconds

memory limit per test: 256 megabytes

input: standard input

output: standard output

Dante is engaged in a fight with "The Savior". Before he can fight it with his sword, he needs to break its shields. He has two guns, Ebony and Ivory, each of them is able to perform any non-negative number of shots.

For every bullet that hits the shield, Ebony deals a units of damage while Ivory deals b units of damage. In order to break the shield Dante has to deal **exactly c** units of damage. Find out if this is possible.

Input

The first line of the input contains three integers a, b, c ($1 \le a, b \le 100$, $1 \le c \le 10\,000$) — the number of units of damage dealt by Ebony gun and Ivory gun, and the total number of damage required to break the shield, respectively.

Output

Print "Yes" (without quotes) if Dante can deal exactly c damage to the shield and "No" (without quotes) otherwise.

Examples

input
4 6 15
output
No

input
3 2 7
output
Yes

input
6 11 6
output
Yes

Note

In the second sample, Dante can fire 1 bullet from Ebony and 2 from Ivory to deal exactly $1 \cdot 3 + 2 \cdot 2 = 7$ damage. In the third sample, Dante can fire 1 bullet from ebony and no bullets from ivory to do $1 \cdot 6 + 0 \cdot 11 = 6$ damage.

→ **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 ACM-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]

→ **Problem tags**

[brute force] [math]

No tag edit access

→ **Contest materials**

- Announcement   ✕
- Tutorial   ✕