## DIOPHANTINE

Given $a, b, c$ (where $a, b$ not both zero) your task is to find if there exist any integers $x, y$ that satisify the equation $a^{*} x+b^{*} y=c$.

## Input

The input consists of several test cases. Each test case contains a line with the three integers $a, b, c(a, b, c<=10000000)$. The test case 000 indicates the end of input.

## Output

For each test case you must output "YES" if there exists a solution,otherwise output "NO". (quotes only for clarity)

## Example

Input:
191
51019
000

## Output:

YES
NO

