



Problem E

A+B

Input File: E.IN

Output File: standard output

Program Source File: E.C, E.CPP, E.JAVA

There is a computer, which has two memory cells (let us denote these cells by the letters a and b). Each cell (variable) stores some integer at any time. The computer can execute only two instructions $a+=b$ and $b+=a$. The first instruction increases the value of the variable a by the value stored in the variable b . The second one, respectively, increases the value of b by the value a . A program for this computer consists of a sequence (possible empty) of such instructions. The instructions are executed in the appropriate order. Your task is to determine whether the given value s can be obtained in some cell after executing some program.

Input

The input file contains three integers: the initial value of the variable a , the initial value of the variable b and the required value s ($0 \leq a, b, s \leq 10^{18}$).

Output

Output **YES** if the required value can be obtained as a result of some program execution, or **NO** otherwise.

Sample input	Sample output
1 2 3	YES
3 4 5	NO
3 4 17	YES