

## 6428 A+B

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 (possibly 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 several test cases, each of them as described below.

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

### Sample Output

For each test case, write to the output 'YES' if the required value can be obtained as a result of some program execution, or 'NO' otherwise on a line by itself.

### Sample Input

```
1 2 3
3 4 5
3 4 17
```

### Sample Output

```
YES
NO
YES
```