Can You Make C

? Ask Doubt

Time-Limit: 1 sec Score: 100.00/100 Difficulty :

Memory: 256 MB Accepted Submissions: 100 Relevant For: AZ-201

Description

Let us see the following equation,

$$Ax + By = C$$

Given three positive integers *A*, *B* and *C*.

You have to determine whether there exists at least one solution for some integers value of *x* and *y* where *x, y* may be negative or non-negative integers.

Input Format

The first line contains *T* ($1 \le T \le 100000$), the number of test cases.
Each of the next *T* lines contains three positive integers *A, B, C* ($1 \le A, B, C \le 10^9$).

Output Format

Print "*Yes*" (without quotes) if at least one solution exits, otherwise print "*No*" (without quotes).

Sample Input 1

Copy

```
2
6 9 33
2 8 1
```

Sample Output 1

Copy

```
Yes
No
```

Note

Explanation 1:
For *x = 1, y = 3, 6 * 1 + 9 * 3 = 33*. The equation is satisfied for (*1, 3*).

Explanation 2:
No solution exists in this case. Observe that *A* and *B* are even numbers. So *Ax + By* is always even number, irrespective of the value of *x* and *y*.
But *C* is an odd number. So no solution exists in this case.

C++14[GCC]

Submit

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1
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