Die Hard 3

Simon: On the fountain, there should be 2 jugs - a 5 gallon and a 3 gallon. Do you see them? Fill one of the jugs with exactly 4 gallons of water and place it on the scale and the timer will stop. You must be precise; one ounce more or less will result in detonation. If you're still alive in 5 minutes, we'll speak.

Bruce: Wait, wait a second. I don't get it. Do you get it?

Samuel: No.

Bruce: Get the jugs. Obviously, we can't fill the 3 gallon jug with 4 gallons of water.

Samuel: Obviously.

Bruce: All right. I know, here we go. We fill the 3 gallon jug exactly to the top, right?

Samuel: Uh huh.

Bruce: Okay, now we pour this 3 gallons into the 5 gallon jug, giving us exactly 3 gallons in the 5 gallon jug, right?

Samuel: Right, then what?

Bruce: We take the 3 gallon jug and fill it a third of the way...

Samuel: No! He said, "Be precise." Exactly 4 gallons.

Bruce: Damn! Every cop within 50 miles is running his ass off and I'm out here playing a kids' games in the park.

Samuel: Hey, you want to focus on the problem at hand?

Given 2 jugs of capacity a and b gallons, and an infinite supply of water, can you fill one of the jugs with exactly c gallons of water ?

Input Format

First line contains the number of testcases T. T lines follow.
Each line contains 3 space separated integers a, b and c. a and b indicate the capacity of the two jugs respectively, and c denotes the exact capacity with which one of the jugs should be filled.

Output Format

For each test case, print "YES" (in a new line) if one of the jugs can be filled with exactly c gallons of water and "NO" (in a new line) if they cannot be filled. (quotes are for clarity)

Constraints

$1 \le a, b, c \le 10^3$
$1 \le T \le 100$

Sample Input

```
2
5 3 4
3 6 4
```

Sample Output

```
YES
NO
```

Explanation

Bruce can do the following, fill jug *a* with 5 gallons.

```
a = 5, b = 0
```

Now, he can fill jug *b* with 3 gallons from jug *a*.

```
a = 2, b = 3
```

He can empty jug *b* and empty 2 gallons from jug *a* to jug *b*.

```
a = 0, b = 2
```

Now, he can fill jug *a* with 5 gallons and fill jug *b* with 1 gallon from jug *a*. This results in jug *a* containing exactly 4 gallons of water.

```
a = 5, b = 2
a = 4, b = 3
```

In the second testcase, it is impossible to generate 4 gallons of water, hence NO.