# Easy Jug

One day Manku was very thirsty so he decided to drink exactly z litres of water. However, in front of him, there is a well of infinite amount of water and 2 empty jugs of quantity x litres and y litres respectively.

Now Manku can do the following operations to any jug

- 1. Fill it completely from the well
- 2. Empty it entirely
- 3. Transfer as much water from Jug 1 to Jug 2, until Jug 1 gets empty or Jug 2 is completely filled.

Now since he has no measuring device so he will do these operations only to make any of the 2 jug having exactly z litres of water.

Now Your task is given value of x, y, z, tell whether it is possible for Manku to drink water or not.

#### Input

First Line of Input contains T, the number of test cases. (T <= 25)

Then for each test case there are 3 numbers x, y, z given in separate line.

- 1 <= x <= 10^8
- 1 <= y <= 10^8
- 1 <= z <= 10^8

### Output

For each test case output "YES" if manku can drink exactly z litres of water else "NO".

### Example

Input:

#### Output:

NO YES YES YES NO

## Explanation

• In Test case 1 Either Manku can have 2 or 4 litres of water so he cant drink 3 litres.

- In Test case 2 Manku can have 1 litre water by doing the following operations:
  - Fill 2 litre Jug
  - Transfer its water to 5 litre Jug
  - Again Fill 2 litre Jug
  - Again Transfer its entire water to 5 litre Jug
  - Now 5 litre Jug will have total 4 litre water
  - Again Fill 2 litre Jug
  - Now transfer 1 litre water to 5 litre Jug
  - $\circ~$  because at present 5 litre Jug don't have space for more than 1 litre water
  - Now the 2 litre Jug will have only 1 litre water left
- For Test case 3 we will transfer 3 litre water twice from 3 litre jug to 9 litre jug
- For test Case 4,
  - transfer 3 times water of 3 litre jug to 8 litre jug
  - Ultimately 3 litre Jug has 1 litre water left and 8 litre Jug is full
  - Now empty 8 litre jug and pour remaining 1 litre of 3 litre jug in it
  - Now fill 3 litre jug fully twice and transfer its water to 8 litre jug
  - Now 8 litre Jug will have 7 litre water
- For Test case 5, we cant have 10 litre of water in any jug