Adam is standing at point $(a, b)$ in an infinite 2D grid. He wants to know if he can reach point $(x, y)$ or not. The only operation he can do is to move to point $(a+b, b),(a, a+b),(a-b, b)$, or $(a, b-a)$ from some point $(a, b)$. It is given that he can move to any point on this 2D grid, i.e., the points having positive or negative $X$ (or $Y$ ) co-ordinates.

Tell Adam whether he can reach $(x, y)$ or not.

## Input Format

The first line contains an integer, $T$, followed by $T$ lines, each containing 4 space-separated integers i.e. $a, b, x$ and $y$.

## Constraints

- $1 \leq T \leq 1000$
- $1 \leq a, b, x, y \leq 10^{18}$


## Output Format

For each test case, display YeS or no that indicates if Adam can reach $(x, y)$ or not.

## Sample Input

```
3
1 1 2 3
2 1 2 3
3 3 1 1
```


## Sample Output

```
YES
YES
NO
```


## Explanation

1. $(1,1)$-> $(2,1)->(2,3)$.
