

## 7692 Square Deal

Given the dimensions of three rectangles, determine if all three can be glued together, touching just on the edges, to form a square. You may rotate the rectangles. For example, Figure C.1 shows successful constructions for the first two sample inputs.

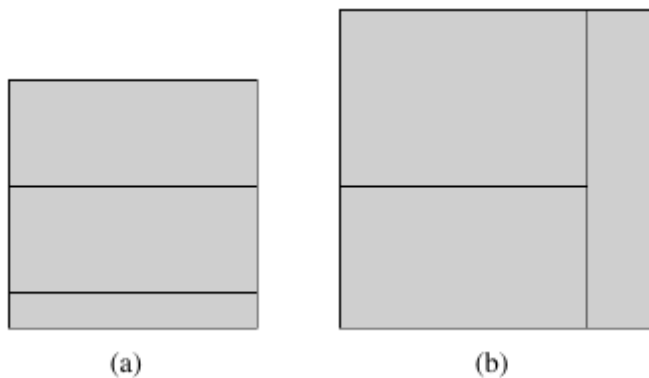


Figure C.1: Constructions for the first two examples

### Input

The input file contains several test cases, each of them as described below.

The input consists of three lines, with line  $j$  containing integers  $H_j$  and  $W_j$ , designating the height and width of a rectangle, such that  $100 \geq H_j \geq W_j \geq 1$ , and such that  $H_1 \geq H_2 \geq H_3$ .

### Output

For each test case, output a line saying 'YES' if they can be glued together to form a square. Output 'NO' otherwise.

### Sample Input

```
7 3
7 1
7 3
9 2
7 4
7 5
3 1
3 2
3 3
```

### Sample Output

```
YES
YES
NO
```