# E1. Guard Duty (easy)

time limit per test: 1 second memory limit per test: 256 megabytes

input: standard input output: standard output

The Rebel fleet is afraid that the Empire might want to strike back again. Princess Heidi needs to know if it is possible to assign R Rebel spaceships to guard B bases so that every base has exactly one guardian and each spaceship has exactly one assigned base (in other words, the assignment is a perfect matching). Since she knows how reckless her pilots are, she wants to be sure that any two (straight) paths – from a base to its assigned spaceship – do not intersect in the galaxy plane (that is, in 2D), and so there is no risk of collision.

# Input

The first line contains two space-separated integers R,  $B \le 10$ . For  $1 \le i \le R$ , the i+1-th line contains two space-separated integers  $x_i$  and  $y_i$  ( $|x_i|$ ,  $|y_i| \le 10000$ ) denoting the coordinates of the i-th Rebel spaceship. The following B lines have the same format, denoting the position of bases. It is guaranteed that no two points coincide and that no three points are on the same line.

# Output

If it is possible to connect Rebel spaceships and bases so as satisfy the constraint, output Yes, otherwise output No (without quote).

#### **Examples**

input		
3 3		
0 0		
2 0		
3 1		
-2 1		
0 3		
2 2		
output		
Yes		

## input

2 1

1 0

2 2 3 1

## output

No

#### **Note**

For the first example, one possible way is to connect the Rebels and bases in order.

For the second example, there is no perfect matching between Rebels and bases.