

# Annoying Job (Easy)

Input file:	standard input
Output file:	standard output
Time limit:	1 second
Memory limit:	512 megabytes

**Note: This is the Easy version of ‘Annoying Job’. The only difference between the easy and hard versions is the constraints.**

Alice is fed up with her job and doesn’t want to go to work today (or any other day). Annoyed by her daily drama Bob has kicked her out of the house and has strictly instructed her to directly go to the office without stopping anywhere in between.

There are  $n$  buildings in her town. Alice lives in building 1 and her office is in building  $n$ . There are  $m$  one-way roads in her town, road  $i$  from building  $a_i$  and to building  $b_i$ .

Alice knows that if Bob spots her at a place from where it is impossible to reach the office, she will be severely punished. Is there any way that she can keep driving without ever actually reaching the office but making sure that there is always a route that leads to her office wherever she is?

## Input

The first line contains a single integer  $T$ .  $T$  test cases follow.

$$1 \leq T \leq 100$$

The first line of each case contains two space-separated integers  $n, m$ .

$$1 \leq n, m \leq 10^3$$

$m$  lines follow, the  $i^{th}$  line containing two space separated integers  $a_i$  and  $b_i$ .

Note: The sum of  $n, m$  for all test cases doesn’t exceed  $10^3$

## Output

For each test case print a single line containing **yes** if it is possible for Alice to travel infinitely on the roads without making Bob angry and **no** otherwise. If there is no path from her home to her office, print a **no**.

## Example

standard input	standard output
3	yes
5 5	no
1 2	no
2 3	
3 4	
4 5	
4 2	
5 5	
1 2	
2 3	
3 4	
4 5	
2 4	
5 5	
1 2	
2 3	
3 4	
4 5	
5 2	