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## Forest

X41530\_en

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A forest is a graph without cycles, and each of its connected components is a tree. Given an undirected graph, is it a forest? In case it is, how many trees does it have?

### Input

Input consists of several graphs. Every graph starts with its number of vertices  $n$  and its number of edges  $m$ , followed by  $m$  pairs  $x y$  indicating an edge between vertices  $x$  and  $y$ . Assume  $1 \leq n \leq 10^4$ ,  $0 \leq m < n$ , that vertices are numbered from 0 to  $n - 1$ , and that there are neither repeated edges nor edges of the type  $x x$ .

### Output

For every graph, if it is a forest print the number of trees it has. Otherwise, print "no".

### Sample input

```
1 0
2 1 1 0
2 0
4 3 0 1 1 2 0 2
8 6 0 4 5 3 3 1 3 7 2 4 6 0
8 6 0 1 2 1 3 4 4 5 5 3 7 6
10 9 0 1 0 2 1 3 1 4 2 5 2 6 3 7 3 8 3 9
```

### Sample output

```
1
1
2
no
2
no
1
```

### Problem information

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