

After Bitcoin reached a peak of \$100,000, Mr. Pips became a billionaire. Now, he wants to purchase cities. To acquire two cities, he must first purchase the road connecting them. Given a list of roads that Mr. Pips has bought, your task is to determine the number of unique cities he has acquired.

Input:

- The first line contains an integer T , the number of test cases.
- For each test case:
 - The first line contains an integer E , the number of roads.
 - The next E lines each contain two integers X and Y , indicating that there is a road connecting city X and city Y .

Output:

For each test case, output the total number of distinct cities Mr. Pips has acquired.

Sample Input:

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

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Sample Output:

```
3
```

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