Problem 2. Maximum Matching (1 point)

Timelimit: 2 seconds

Problem Statement

For given bipartide graph, findout Maximum matching in the graph.

Input Statement

The first line of input contains t which is the number of test cases.
For each test case, first lines contains three integers $n \leq 1,000$, $m \leq 1,000$ and $l \leq 10,000$.
n and m are the size of biparted sets.
l is the number of edges. Next l line contain two number ($u < n$) and ($v < m$). It means left uth node is connected to right vth node.

Output Statement

For each test case, prints out Maximum matching in the biparted graph.
Each test case shoule be separated by a line.

Input Example

```
2
5 5 5
1 2
2 0
2 1
4 1
4 4
1 1 1
0 0
```

Output Example

```
3
1
```