## Trees in a Forest

Given n nodes of a forest (collection of trees), find the number of trees in the forest.

**Note:** Explore the concept of DFS

## **Input Format:**

First line, denotes the number of nodes Second line, 's' denotes the number of edges Next subsequent s lines denotes the edges

## **Output Format:**

A positive integer, denoting the number of trees.

## Solution:

```
adj = [[] for _ in range(10009)]
def addEdge(adj, u, v):
       adj[u].append(v)
       adj[v].append(u)
def DFSUtil(u, adj, visited):
       visited[u] = True
       for i in range(len(adj[u])):
               if (visited[adj[u][i]] == False):
                       DFSUtil(adj[u][i], adj, visited)
def countTrees(adj, V):
       visited = [False] * V
       res = 0
       for u in range(V):
               if (visited[u] == False):
                       DFSUtil(u, adj, visited)
                       res += 1
       return res
```

```
v = int(input())
```

```
e=int(input())
for i in range(e):
    x,y = map(int,input().split())
    addEdge(adj,x,y)
print(countTrees(adj, v))
```