NoOfProvinces.java

```
1   package Graph;
2
3   import java.util.ArrayList;
4
5   public class NoOfProvinces {
6       public static void dfs(ArrayList<ArrayList<Integer>> adj,int[] vis,int node)
7       {
8           vis[node]=1;
9
10          for(int ele: adj.get(node))
11          {
12  1           if(vis[ele]==0)
13  1               dfs(adj,vis,ele);
14          }
15          return;
16      }
17      public static int findCircleNum(int[][] isConnected) {
18          ArrayList<ArrayList<Integer>> adj=new ArrayList<>();
19          int n=isConnected.length;
20  2       for(int i=0;i<n;i++)
21          {
22              adj.add(new ArrayList<>());
23          }
24  2       for(int i=0;i<n;i++)
25          {
26  2           for(int j=0;j<n;j++)
27              {
28  2               if(isConnected[i][j]==1 && i!=j)
29                  {
30                      adj.get(i).add(j);
31                      adj.get(j).add(i);
32                  }
33
34              }
35          }
36          int[] vis=new int[n];
37          int count=0;
38
39  2       for(int i=0;i<n;i++)
40          {
41  1           if(vis[i]!=1)
42              {
43  1               count++;
44  1               dfs(adj,vis,i);
45              }
46          }
47  1       return count;
48      }
49  }
```

Mutations

12	1. negated conditional → KILLED
13	1. removed call to Graph/NoOfProvinces::dfs → KILLED
20	1. negated conditional → KILLED 2. changed conditional boundary → SURVIVED
24	1. negated conditional → KILLED

	2. changed conditional boundary → KILLED
26	1. changed conditional boundary → KILLED 2. negated conditional → KILLED
28	1. negated conditional → KILLED 2. negated conditional → KILLED
39	1. changed conditional boundary → KILLED 2. negated conditional → KILLED
41	1. negated conditional → KILLED
43	1. Changed increment from 1 to -1 → KILLED
44	1. removed call to Graph/NoOfProvinces::dfs → KILLED
47	1. replaced int return with 0 for Graph/NoOfProvinces::findCircleNum → KILLED

Active mutators

- CONDITIONALS_BOUNDARY
- EMPTY_RETURNS
- FALSE_RETURNS
- INCREMENTS
- INVERT_NEGS
- MATH
- NEGATE_CONDITIONALS
- NULL_RETURNS
- PRIMITIVE_RETURNS
- TRUE_RETURNS
- VOID_METHOD_CALLS

Tests examined

- Graph.NoOfProvincesTest.testFindCircleNum(Graph.NoOfProvincesTest) (0 ms)

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