NoOfProvinces.java

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

Mutations

10	1. negated conditional → KILLED
11	1. removed call to com/example/graph/NoOfProvinces::dfs → KILLED
19	1. negated conditional → KILLED 2. changed conditional boundary → SURVIVED
22	1. negated conditional → KILLED 2. changed conditional boundary → KILLED
23	1. negated conditional → KILLED 2. changed conditional boundary → KILLED
24	1. negated conditional → KILLED 2. negated conditional → KILLED

34	1. changed conditional boundary → KILLED 2. negated conditional → KILLED
35	1. negated conditional → KILLED
36	1. Changed increment from 1 to -1 → KILLED
37	1. removed call to com/example/graph/NoOfProvinces::dfs → KILLED
40	1. replaced int return with 0 for com/example/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

- com.example.graph.NoOfProvincesTest.testFindCircleNum(com.example.graph.NoOfProvincesTest) (0 ms)

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