CheckTreeIsSymmetric.java

```
package TreesTesting;
2
3
    public class CheckTreeIsSymmetric {
4
5
         public static boolean isSymmetric(Node root) {
              if (root == null) {
6 1
7 1
                   return true;
9 2
              return isSymmetric(root.left, root.right);
10
11
12
         private static boolean isSymmetric(Node leftSubtreeRoot, Node rightSubtreRoot) {
              if (leftSubtreeRoot == null && rightSubtreRoot == null) {
13 <u>2</u>
14 <u>1</u>
                   return true;
15
16 <u>3</u>
              if (leftSubtreeRoot == null || rightSubtreRoot == null || leftSubtreeRoot.data != rightSubtreRoot.data) {
17 <u>1</u>
                   return false;
18
19 <u>4</u>
              return isSymmetric(leftSubtreeRoot.right, rightSubtreRoot.left) && isSymmetric(leftSubtreeRoot.left, rightSubtre
20
21 }
     Mutations
   1. negated conditional → KILLED
    1. replaced boolean return with false for TreesTesting/CheckTreeIsSymmetric::isSymmetric → KILLED

    replaced boolean return with false for TreesTesting/CheckTreeIsSymmetric::isSymmetric → KILLED

   2. replaced boolean return with true for TreesTesting/CheckTreeIsSymmetric::isSymmetric → KILLED
1. negated conditional → KILLED 2. negated conditional → KILLED
14 1. replaced boolean return with false for TreesTesting/CheckTreeIsSymmetric::isSymmetric -> KILLED
1. negated conditional → KILLED
2. negated conditional → KILLED
3. negated conditional → KILLED
1. replaced boolean return with true for TreesTesting/CheckTreeIsSymmetric::isSymmetric → KILLED
    1. replaced boolean return with false for TreesTesting/CheckTreeIsSymmetric::isSymmetric → KILLED
2. replaced boolean return with true for TreesTesting/CheckTreeIsSymmetric::isSymmetric → KILLED
3. negated conditional → KILLED
4. negated conditional → KILLED
```

Active mutators

- BOOLEAN_FALSE_RETURN
 BOOLEAN_TRUE_RETURN
 CONDITIONALS BOUNDARY_MUTATOR
 EMPTY_RETURN_VALUES
 INCREMENTS_MÜTATOR
 INVERT_NEGS_MUTATOR
 MATH_MUTATOR

- MATH_MUTATOR

- MATH MUTATOR
 NEGATE_CONDITIONALS_MUTATOR
 NULL RETURN VALUES
 PRIMITIVE_RETURN_VALS_MUTATOR
 VOID_METHOD_CALL_MUTATOR

Tests examined

- $\bullet \ \, Trees Testing. All Tree Testing. [engine:junit-jupiter]/[class: Trees Testing. All Tree Testing]/[method: test Symmetric()] \ \, (14 ms) \\ \bullet \ \, Trees Testing. All Tree Testing. [engine:junit-jupiter]/[class: Trees Testing. All Tree Testing]/[method: build()] \ \, (31 ms) \\ \bullet \ \, Trees Testing. All Tree T$

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