```
1 /****
 2 *
 3 * TreeNode3 extends TreeNode by adding three child components, which are
 4 * references other TreeNodes. Hence, TreeNode3 is used to represent trinary
 5 * syntactic constructs in a parse tree.
 6 *
7 */
 8 public class TreeNode3 extends TreeNode {
10
11
        * Construct this with the given id and child TreeNode references.
12
13
       public TreeNode3(int id, TreeNode child1, TreeNode child2,
              TreeNode child3) {
14
15
           super(id);
16
          this.child1 = child1;
17
          this.child2 = child2;
18
           this.child3 = child3;
19
      }
20
21
22
        * Return the String representation of this subtree, which is the String
        * value of its ID, followed on the next three indented lines by the
23
24
         * recursive toString of its three children. See the documentation for <a
         * href= "TreeNode.html#toString()"> TreeNode.toString() </a> for a general
26
         * description the way trees are represented as strings.
27
28
       public String toString(int level) {
29
           String indent = "";
           for (int i = 0; i < level; i++) {
30
             indent += " ";
31
32
33
           return symPrint(id) + "\n" +
               indent + " " + (child1 == null ? "null" : child1.toString(level+1)) + "\n" +
34
               indent + " " + (child2 == null ? "null" : child2.toString(level+1)) + "\n" +
35
36
               indent + " " + (child3 == null ? "null" : child3.toString(level+1));
37
       }
38
39
       /** Reference to the left child of this node. */
40
       public TreeNode child1;
41
42
        /** Reference to the middle child of this node. */
43
        public TreeNode child2;
44
45
        /** Reference to the right child of this node. */
46
        public TreeNode child3;
47
48 }
```