```
1 /****
 2 *
 3 * TreeNodeList extends TreeNode by adding a node component and a siblings
 4 * component. The node is a reference to a single TreeNode. The siblings
 5 * component is a reference to a TreeNodeList, which may contain zero or more
 6 * additional TreeNodes. Hence, TreeNodeList is used to represent list
 7 * constructs in a parse tree. It can equivalently be viewed as a way to
 8 * represent n-ary constructs.
9 *
10 */
11 public class TreeNodeList extends TreeNode {
12
13
14
        * Construct this with the given id and child TreeNode references.
15
16
       public TreeNodeList(TreeNode node, TreeNodeList siblings) {
17
           this.node = node;
18
           this.siblings = siblings;
19
       }
20
21
22
       * Return the String representation of this subtree, which is the recursive
        * toString of each of its nodes, separated by a ';' on a new line plus
23
        * another blank line. 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
          if (siblings == null) {
34
             return node == null ? " " : node.toString(level);
35
36
          else {
37
            return (node == null ? "" : node.toString(level)) + "\n" +
38
                  indent + " ;\n" + indent + siblings.toString(level);
39
       }
40
41
42
       /** Reference to the first node of this (sub)list. */
43
       public TreeNode node;
44
45
       /** Reference to the rest of this (sub)list */
46
       public TreeNodeList siblings;
47
48 }
49
```