

```
1  /****
2  *
3  * TreeNode1 extends TreeNode by adding one child component, which is a
4  * reference to another TreeNode. Hence, TreeNode1 is used to represent unary
5  * syntactic constructs in a parse tree.
6  *
7  */
8  public class TreeNode1 extends TreeNode {
9
10     /**
11     * Construct this with the given id and child TreeNode reference.
12     */
13     public TreeNode1(int id, TreeNode child) {
14         super(id);
15         this.child = child;
16     }
17
18     /**
19     * A la the other constructor, but with line and column numbers.
20     */
21     public TreeNode1(int id, TreeNode child, int line, int column) {
22         super(id, line, column);
23         this.child = child;
24     }
25
26     /**
27     * Return the String representation of this subtree, which is the String
28     * value of its ID, followed on the next indented line by the recursive
29     * toString of its child. See the documentation for <a href=
30     * "TreeNode.html#toString()">TreeNode.toString() </a> for a general
31     * description the way trees are represented as strings.
32     */
33     public String toString(int level) {
34         String indent = "";
35         for (int i = 0; i < level; i++) {
36             indent += " ";
37         }
38         return symPrint(id) + toStringLineAndColumn(" ") + "\n" +
39             indent + " " +
40             (child == null ? "null" : child.toString(level+1)) + "\n";
41     }
42
43     /** Reference to the single child of this node. */
44     public TreeNode child;
45
46 }
```