TreeNode2.java

```java
1  /**
2   * TreeNode2 extends TreeNode by adding two child components, which are
3   * references other TreeNodes. Hence, TreeNode2 is used to represent binary
4   * syntactic constructs in a parse tree.
5   */
6  */
7 public class TreeNode2 extends TreeNode {
8  /**
9   * Construct this with the given id and child TreeNode references.
10  */
11 public TreeNode2(int id, TreeNode child1, TreeNode child2) {
12     super(id);
13     this.child1 = child1;
14     this.child2 = child2;
15 }
16
17 /**
18   * Return the String representation of this subtree, which is the String
19   * value of its ID, followed on the next two indented lines by the
20   * recursive toString of its two children. See the documentation for <a
21   * href= "TreeNode.html#toString()"> TreeNode.toString() </a> for a general
22   * description the way trees are represented as strings.
23  */
24 public String toString(int level) {
25     String indent = "";
26     for (int i = 0; i < level; i++) {
27         indent += " ";
28     }
29     return symPrint(id) + "\n" +
20       indent + " * " + child1.toString(level+1) + "\n" +
22       indent + " * " + child2.toString(level+1);
23 }
24
25 /** Reference to the left child of this node. */
26 public TreeNode child1;
27
28 /** Reference to the right child of this node. */
29 public TreeNode child2;
30  }
```