TreeNode3.java

public class TreeNode3 extends TreeNode {

    /**
     * Construct this with the given id and child TreeNode references.
     */
    public TreeNode3(int id, TreeNode child1, TreeNode child2,
                     TreeNode child3) {
        super(id);
        this.child1 = child1;
        this.child2 = child2;
        this.child3 = child3;
    }

    /**
     * Return the String representation of this subtree, which is the String
     * value of its ID, followed on the next three indented lines by the
     * recursive toString of its three children. See the documentation for <a
     * href="TreeNode.html#toString()">TreeNode.toString()</a> for a general
     * description the way trees are represented as strings.
     */
    public String toString(int level) {
        String indent = "";
        for (int i = 0; i < level; i++) {
            indent += " ";
        }
        return symPrint(id) + "\n" +
               indent + " " + (child1 == null ? "null" : child1.toString(level+1)) + "\n" +
               indent + " " + (child2 == null ? "null" : child2.toString(level+1)) + "\n" +
               indent + " " + (child3 == null ? "null" : child3.toString(level+1));
    }

    /** Reference to the left child of this node. */
    public TreeNode child1;

    /** Reference to the middle child of this node. */
    public TreeNode child2;

    /** Reference to the right child of this node. */
    public TreeNode child3;
}