

```
1  /**
2   *
3   * LeafNode extends TreeNode by adding an Object value field, but no subtree
4   * references.
5   *
6   */
7  public class LeafNode extends TreeNode {
8
9      /**
10     * Construct with the given id and value.
11     */
12     public LeafNode(int id, Object value) {
13         super(id);
14         this.value = value;
15     }
16
17     /**
18     * Return the string representation of this leaf, which starts with the
19     * String value of its ID.  If the value field of this leaf is not null,
20     * then the return value has appended a colon, followed by the toString of
21     * the value.
22     */
23     public String toString(int level) {
24         return symPrint(id) +
25             (value == null ? "" : (" : " + value.toString()));
26     }
27
28     /** The generic value of this node, used for identifier names and literal
29     * values. */
30     public Object value;
31
32 }
```