

```
1 import components.stack.Stack;
2
3
4 /**
5  * Model class.
6  *
7  * @author Bruce W. Weide
8  * @author Paolo Bucci
9  */
10 public final class AppendUndoModel1 implements AppendUndoModel {
11
12     /**
13      * Model variables.
14      */
15     private String input, output;
16
17     /**
18      * Default constructor.
19      */
20     public AppendUndoModel1() {
21         /**
22          * Initialize model; both variables start as empty strings
23          */
24         this.input = "";
25         this.output = "";
26     }
27
28     @Override
29     public void setInput(String input) {
30         this.input = input;
31     }
32
33     @Override
34     public String input() {
35         return this.input;
36     }
37
38     public void setOutput(String output) {
39         this.output = output;
40     }
41
42     @Override
43     public Stack<String> output() {
44         /**
45          * Confused about this. All the other methods in the
```

```
    program consider
46      * this method to return a string, but the interface
    returns a Stack
47      * instead.
48      */
49      Stack<String> result = new Stack1L<>();
50      result.push(this.output);
51      return result;
52  }
53
54 }
55
```