

```
1 import components.stack.Stack;
2 import components.stack.Stack1L;
3
4 /**
5  * Model class.
6  *
7  *
8  * @author Jeng Zhuang
9  */
10 public final class AppendUndoModel1 implements AppendUndoModel {
11
12     /**
13      * Model variables.
14      */
15     private String input;
16
17     /**
18      * Stack output.
19      */
20     private final Stack<String> output;
21
22     /**
23      * Default constructor.
24      */
25     public AppendUndoModel1() {
26         /**
27          * Initialize model; both variables start as empty strings
28          */
29         this.input = "";
30         this.output = new Stack1L<>();
31         this.output.push(""); // Initialize with empty output
32     }
33
34     @Override
35     public String input() {
36         return this.input;
37     }
38
39     @Override
40     public void setInput(String input) {
```

```
41         this.input = input;
42     }
43
44     @Override
45     public Stack<String> output() {
46         return this.output;
47     }
48
49 }
50
```