

```
1 import components.sequence.Sequence;
2 import components.sequence.Sequence1L;
3 import components.simplewriter.SimpleWriter;
4 import components.simplewriter.SimpleWriter1L;
5 import components.stack.Stack;
6 import components.stack.Stack1L;
7 import components.stack.Stack2;
8
9 /**
10  * Simple HelloWorld program (clear of Checkstyle and FindBugs warnings).
11  *
12  * @author Sam Espanioly
13  */
14 public final class HelloWorld222 {
15
16     /**
17      * Default constructor--private to prevent instantiation.
18      */
19     public HelloWorld222() {
20         // no code needed here
21     }
22
23     /**
24      * Reverses ("flips") {@code this}.
25      *
26      * @updates this
27      * @ensures this = rev(#this)
28      */
29     //this method works though its no an instance method
30     public void flip Stack<String> st {
31         // temporary stack
32         Stack<String> tempo = new Stack2<>();
33         if (st.length() > 0) {
34             for String x : st {
35                 tempo.push(x);
36             }
37             st.transferFrom(tempo);
38         }
39     }
40 }
41
42 // this method should work but it gives an error
43 public void flip1Stack() {
44     // temporary stack
45     Stack<String> tempo = new Stack1L<>();
46
47     for (String x : this) {
48         tempo.push(x);
49     }
50     int len = this.length();
51     for (int i = 0; i < len; i++) {
52         this.transferFrom(tempo);
53     }
54 }
55
56 /**
57  * Reverses ("flips") {@code this}.
```

```
58     *
59     * @updates this
60     * @ensures this = rev(#this)
61     */
62     public void flip2forSequences() {
63         Sequence<String> tempis = new Sequence1L<>();
64         int a = 0;
65         for (String x : this) {
66             tempis.add(a, x);
67             a++;
68         }
69         int len = this.length();
70         for (int i = 0; i < len; i++) {
71             this.transferFrom(tempis);
72         }
73     }
74
75     /**
76     * Main method.
77     *
78     * @param args
79     *         the command line arguments; unused here
80     */
81     public static void main(String[] args) {
82         SimpleWriter out = new SimpleWriter1L();
83         out.println "Hello World!";
84         //tests for flip for stack method
85         Stack<String> tempo = new Stack2<>();
86         tempo.push "a";
87         tempo.push "5";
88         tempo.push "t";
89         tempo.push "123";
90         out.print(tempo);
91         tempo.flip();
92         out.print(tempo);
93         out.close();
94     }
95
96 }
97
```