```
1 import components.map.Map;
 9
10 / * *
11 * Layered implementation of secondary method {@code prettyPrint} for
12 * {@code Program}.
13 */
14 public final class Program1PrettyPrint1 extends Program1 {
16
      * Private members -----
17
18
19
20
21
      * Constructs into the given {@code Program} the program read from the given
     * input file.
22
23
     * @param fileName
24
25
                  the name of the file containing the program
26
27
                  the constructed program
     * @replaces p
28
29
      * @requires [fileName is the name of a file containing a valid BL program]
30
      * @ensures p = [program from file fileName]
31
32
    private static void loadProgram(String fileName, Program p) {
33
         SimpleReader in = new SimpleReader1L(fileName);
34
         p.parse(in);
35
         in.close();
36
     }
37
38
39
      * Prints the given number of spaces to the given output stream.
40
41
      * @param out
42
                  the output stream
43
     * @param numSpaces
44
                  the number of spaces to print
      * @updates out.content
45
46
      * @requires out.is open and spaces >= 0
47
      * @ensures out.content = #out.content * [numSpaces spaces]
      */
48
49
     private static void printSpaces(SimpleWriter out, int numSpaces) {
50
         for (int i = 0; i < numSpaces; i++) {</pre>
51
             out.print(' ');
52
53
     }
54
55
56
      57
58
59
60
      * No-argument constructor.
61
62
     public Program1PrettyPrint1() {
63
         super();
64
      }
65
     /*
66
```