```
1 import java.awt.Cursor;
11
12 / * *
13 * View class.
14 *
15 * @author Bruce W. Weide
16 * @author Paolo Bucci
17 * @author Gage Farmer
18 */
19 @SuppressWarnings ("serial")
20 public final class DemoView1 extends JFrame implements DemoView {
22
      /**
23
      * Controller object.
24
25
      private DemoController controller;
26
27
      * GUI widgets that need to be in scope in actionPerformed method, and
28
29
      * related constants. (Each should have its own Javadoc comment, but these
30
       * are elided here to keep the code shorter.)
31
32
      private static final int LINES IN TEXT AREAS = 5,
33
              LINE LENGTHS IN TEXT AREAS = 20, ROWS IN BUTTON PANEL GRID = 1,
              COLUMNS IN BUTTON PANEL GRID = 2, ROWS IN THIS GRID = 3,
34
35
              COLUMNS IN THIS GRID = 1;
36
37
      /**
38
      * Storage String Arrays.
39
40
      private ArrayList<String> outputLast = new ArrayList<>();
41
      private ArrayList<String> inputLast = new ArrayList<>();
42
      /**
43
44
      * Text areas.
45
46
      private final JTextArea inputText, outputText;
47
48
      /**
49
      * Buttons.
50
      private final JButton resetButton, appendButton, undoButton;
51
52
53
54
      * No-argument constructor.
55
56
      public DemoView1() {
57
          // Create the JFrame being extended
58
59
           * Call the JFrame (superclass) constructor with a String parameter to
60
           * name the window in its title bar
61
62
63
          super("Simple GUI Demo With MVC");
64
65
          // Set up the GUI widgets -----
66
67
          * Create widgets
68
```

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225 } 226