KeyboardListener.java

83

```
1 package maze.display;
 3 import java.awt.event.KeyEvent;
10
11 /**
   * Links key presses and actions
13 *
14 * @author Pierre-Andre Mudry
15 * @date February 2012
  * @version 1.0
16
17 */
18 public class KeyboardListener implements KeyListener
20
21
      MazeContainer mc;
22
23
24
       * To link keys to actions from the game in the maze, we need references to
25
26
27
       * @param mc The maze
28
       * @param mg The game
29
30
      public KeyboardListener MazeContainer mc, MazeGame mg
          this mc = mc
this mg = mg
31
32
33
34
35
36
       * What happens when a key has been pressed
37
38
      @Override
39
      public void keyPressed(KeyEvent arg0) {
40
41
           * Keys for player 1
42
43
           switch (arg0.getKeyCode()) {
44
45
           case KeyEvent.VK_W
46
               mg.movePlayer(Direction.UP);
47
              break
48
           case KeyEvent.VK_S:
49
               mg.movePlayer(Direction.DOWN);
50
              break;
51
           case KeyEvent VK_D:
52
               mg movePlayer(Direction.RIGHT);
53
              break
54
           case KeyEvent. VK_A
55
               mg.movePlayer(Direction.LEFT);
56
               break;
57
           case KeyEvent.VK_Q:
58
               mg.displaySolution();
59
              break
60
           case KeyEvent.VK_N:
               mg.generateNewMaze(new Random().nextInt());
61
62
               break;
63
64
65
66
67
       * This method is called when a key has been released (i.e. no more pressed)
68
      @Override
69
70
      public void keyReleased KeyEvent arg0
71
72
73
74
75
76
       * This method is called when a key has been pressed and released (complete
       * cycle)
77
78
       */
      @Override
79
      public void keyTyped(KeyEvent arg0)
80
81
82
```