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```
* Author:
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      * Date:
 3
                    2015-07-18
 4
      * Assignment: HW4-1
      * Source File: GameController.java
 5
 6
     * Language:
                  Java
 7
                   CSCI-C 490, Android Programming, MoWe 08:00
 8
     _____*/
 9
    import java.awt.event.ActionEvent;
10
    import java.awt.event.ActionListener;
11
12
13
      * Controller class for the Tic Tac Toe game. Bridges the model (Game class) and the view (GameView
      * class) and associates user generated events with model (data) actions.
14
15
      * @author Dan Cassidy
16
17
     * /
18
    public class GameController
19
        private GameModel theGame; // Model.
20
21
        private GameView theView; // View.
22
23
24
          * 3-parameter constructor.
25
          ^{\star} @param numRows The number of rows the game board will have.
26
27
          * @param numColumns The number of columns the game board will have.
28
          * @param winLength The length of the sequence required to win the game.
         * /
29
30
        public GameController(int numRows, int numColumns, int winLength)
31
32
             // Set up the model and the view.
33
             theGame = new GameModel(numRows, numColumns, winLength);
34
             the View = new Game View (the Game.getRows(), the Game.getColumns());
35
             theView.setWinningConditionsLabelText(theGame.getWinLength() + " in a row wins");
36
             theView.setStatusLabelText(theGame.getStatusString());
37
38
             // Add listeners to the view.
39
             theView.addResetButtonActionListener(new ActionListener()
40
                public void actionPerformed(ActionEvent evt)
41
42
                {
43
                    theGame.reset();
44
                    theView.reset();
45
                    theView.setStatusLabelText(theGame.getStatusString());
46
                }
47
            });
48
             theView.addBoardButtonActionListener(new ActionListener()
49
             {
50
                public void actionPerformed(ActionEvent event)
51
                 {
52
                    int row = Integer.parseInt(event.getActionCommand()) / theGame.getColumns();
53
                    int column = Integer.parseInt(event.getActionCommand()) % theGame.getColumns();
54
55
                    theGame.playMove(row, column);
56
                    theView.setBoardButtonText(row, column, theGame.getSpaceString(row, column));
57
                    theView.setStatusLabelText(theGame.getStatusString());
58
                    if (theGame.getStatus() != GameModel.Status.IN_PROGRESS)
59
                        theView.setBoardEnabled(false);
60
                }
```

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```
61
            });
62
        }
63
        /**
64
         * Show the view.
65
        * /
66
67
        public void showView()
68
69
            theView.setVisible(true);
70
        }
71
    }
72
```