```
1 package tests;
 3 import static org.junit.Assert.*;
 4
 5 import java.util.Set;
 6
 7 import org.junit.BeforeClass;
 8 import org.junit.Test;
 9
10 import clueGame.Board;
11 import experiment.BoardCell;
13 public class testAdjTargets
14 | {
15
16
     private static Board board;
17
     @BeforeClass
     public static void setUp() {
18
19
       // Board is singleton, get the only instance
       board = Board.getInstance();
20
21
       // set the file names to use my config files
       board.setConfigFiles("Clue_Board_Layout_Langfield_Prather.csv",
22
   "LegendForClueLayout.txt");
23
       // Initialize will load BOTH config files
24
       board.initialize();
25
     }
26
27
     //Check that adjacencies for walkway are only on walkway unless
28
     // door that is enterable
29
     @Test
30
     public void testWalkwayAdj()
31
32
       Set<clueGame.BoardCell> cells = board.getAdjList(13, 15);
33
       for (clueGame.BoardCell tempCell : cells)
34
35
         assertFalse(tempCell.isDoorway());
36
37
       assertTrue(cells.contains(board.getCellAt(14, 15)));
38
39
40
     // Test that in room there should be no adjacencies
41
     @Test
42
     public void testAdjInRoom()
43
44
       Set<clueGame.BoardCell> cells = board.getAdjList(14, 19);
45
       assertTrue(cells.isEmpty());
46
47
48
     // Check cant go over board
49
     @Test
50
     public void testEdgeOfBoard()
51
52
       Set<clueGame.BoardCell> cells = board.getAdjList(20, 22);
       for(clueGame.BoardCell cell: cells) {
53
         if(cell == null) {
54
55
           assertFalse(cells.contains(board.getCellAt(21, 22)));
56
           assertFalse(cells.contains(board.getCellAt(20, 23)));
57
58
           cells = board.getAdjList(0, 9);
           assertFalse(cells.contains(board.getCellAt(40, 40)));
```

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                                           testAdjTargets.java
 60
             assertFalse(cells.contains(board.getCellAt(-1, 9)));
 61
           }
  62
         }
  63
  64
       }
 65
  66
       //Check that we cant go into a room without a doorway
  67
       @Test
 68
       public void testNotDoorway()
 69
  70
         Set<clueGame.BoardCell> cells = board.getAdjList(3, 5);
  71
         assertFalse(cells.contains(board.getCellAt(3, 4)));
  72
  73
         cells = board.getAdjList(3, 13);
         assertFalse(cells.contains(board.getCellAt(3, 14)));
  74
  75
  76
       }
  77
  78
       // Check that we can go into doorway
  79
       @Test
  80
       public void testEnterDoorAdj()
  81
  82
         // Up
 83
         Set<clueGame.BoardCell> cells = board.getAdjList(11, 18);
  84
         assertTrue(cells.contains(board.getCellAt(12,18)));
 85
  86
         //Down
  87
         cells = board.getAdjList(5, 11);
         assertTrue(cells.contains(board.getCellAt(4,11)));
 88
 89
 90
         //Right
 91
         cells = board.getAdjList(18, 4);
  92
         assertTrue(cells.contains(board.getCellAt(18,3)));
 93
 94
         //Left
 95
         cells = board.getAdjList(20, 6);
 96
         assertTrue(cells.contains(board.getCellAt(20, 7)));
 97
 98
       }
 99
 100
       // Check locations that are doorways should only let you in to room
 101
       @Test
 102
       public void testDoorAdj()
103
 104
         Set<clueGame.BoardCell> cells = board.getAdjList(4, 11);
105
         assertTrue(cells.contains(board.getCellAt(5,11)));
106
         assertEquals(cells.size(), 1);
107
         cells = board.getAdjList(6, 19);
108
         assertTrue(cells.contains(board.getCellAt(7,19)));
109
110
         assertEquals(cells.size(), 1);
111
112
       }
113
114
       // Check targets along walkways
115
       @Test
116
       public void testWalkwayTargets()
117
118
         board.calcTargets(15, 9, 2);
         Set<clueGame.BoardCell> cells = board.getTargets();
119
```

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```
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                                          testAdjTargets.java
120
         assertTrue(cells.contains(board.getCellAt(16, 10)));
121
         assertFalse(cells.contains(board.getCellAt(17,9)));
122
         board.calcTargets(5, 13, 2);
123
124
         cells = board.getTargets();
125
         assertTrue(cells.contains(board.getCellAt(7, 13)));
126
         assertFalse(cells.contains(board.getCellAt(5,15)));
127
128
         board.calcTargets(9, 19, 4);
129
         cells = board.getTargets();
130
         assertTrue(cells.contains(board.getCellAt(9, 15)));
131
         assertFalse(cells.contains(board.getCellAt(13,19)));
132
133
         board.calcTargets(3, 5, 2);
134
         cells = board.getTargets();
         assertTrue(cells.contains(board.getCellAt(5, 5)));
135
136
         assertFalse(cells.contains(board.getCellAt(3,3)));
137
138
       }
139
140
       // Test that the user can enter a room with target
141
       @Test
142
       public void testEnterRoomTarget()
143
144
         board.calcTargets(8, 4, 3);
145
         Set<clueGame.BoardCell> cells = board.getTargets();
146
         assertTrue(cells.contains(board.getCellAt(8, 3)));
147
         assertEquals(cells.size(), 10);
148
149
         board.calcTargets(9, 16, 1);
150
         cells = board.getTargets();
151
         assertTrue(cells.contains(board.getCellAt(8, 16)));
152
         assertEquals(cells.size(), 4);
153
154
       }
155
156
       // Check targets when leaving room
157
       @Test
158
       public void testLeaveRoomTargets()
159
160
         board.calcTargets(14, 5, 1);
161
         Set<clueGame.BoardCell> cells = board.getTargets();
162
         assertTrue(cells.contains(board.getCellAt(14, 6)));
163
164
         board.calcTargets(4, 11, 2);
165
         cells = board.getTargets();
166
         assertTrue(cells.contains(board.getCellAt(6, 11)));
167
168
       }
169
170
171 }
172
```

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