

RoomTest.java

```
1 import static org.junit.Assert.*;
6
7 public class RoomTest {
8
9     @Test
10    public void testPopulateRoom0() {
11        //check that all variables are set properly for room 0
12        //make sure the north door, south door, cream coffee and sugar are in
the correct states
13        //since they are hardcoded in.
14        Room x = new Room(0);
15        assertTrue(x.northDoor);
16        assertFalse(x.southDoor);
17        assertTrue(x.cream);
18        assertFalse(x.coffee);
19        assertFalse(x.sugar);
20    }
21    @Test
22    public void testPopulateRoom1() {
23        //check that all variables are set properly for room 1
24        //make sure the north door, south door, cream coffee and sugar are in
the correct states
25        //since they are hardcoded in.
26        Room x = new Room(1);
27        assertTrue(x.northDoor);
28        assertTrue(x.southDoor);
29        assertFalse(x.cream);
30        assertTrue(x.coffee);
31        assertFalse(x.sugar);
32    }
33    @Test
34    public void testPopulateRoom2() {
35        //check that all variables are set properly for room 2
36        //make sure the north door, south door, cream coffee and sugar are in
the correct states
37        //since they are hardcoded in.
38        Room x = new Room(2);
39        assertTrue(x.northDoor);
40        assertTrue(x.southDoor);
41        assertFalse(x.cream);
42        assertFalse(x.coffee);
43        assertFalse(x.sugar);
44    }
45    @Test
46    public void testPopulateRoom3() {
47        //check that all variables are set properly for room 3
48        //make sure the north door, south door, cream coffee and sugar are in
the correct states
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49     //since they are hardcoded in.
50     Room x = new Room(3);
51     assertTrue(x.northDoor);
52     assertTrue(x.southDoor);
53     assertFalse(x.cream);
54     assertFalse(x.coffee);
55     assertFalse(x.sugar);
56 }
57 @Test
58 public void testPopulateRoom4() {
59     //check that all variables are set properly for room 4
60     //make sure the north door, south door, cream coffee and sugar are in
the correct states
61     //since they are hardcoded in.
62     Room x = new Room(4);
63     assertTrue(x.northDoor);
64     assertTrue(x.southDoor);
65     assertFalse(x.cream);
66     assertFalse(x.coffee);
67     assertFalse(x.sugar);
68 }
69 @Test
70 public void testPopulateRoom5() {
71     //check that all variables are set properly for room 5
72     //make sure the north door, south door, cream coffee and sugar are in
the correct states
73     //since they are hardcoded in.
74     Room x = new Room(5);
75     assertFalse(x.northDoor);
76     assertTrue(x.southDoor);
77     assertFalse(x.cream);
78     assertFalse(x.coffee);
79     assertTrue(x.sugar);
80 }
81
82 @Test
83 public void testGetRoomDescription() {
84     //check that the Room Descriptions are properly set by creating each
of the rooms, and verifying the room adjective matches
85     //the expected value array, called adjArray. Also all of these
adjectives describe out professor, Bill Laboon.
86     String[] adjArray={"Inspirational", "Cool-Dude", "Chili-
Pepper", "Smart", "Fun", "Hilarious"};
87     for(int i=0;i<6;i++)
88     {
89         Room x = new Room(i);
90         assertEquals(x.roomAdj,adjArray[i]);
91     }
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92     }
93
94     @Test
95     public void testGetRoomDescriptionInvalid() {
96         //Verify that if the room number is invalid, the error message is the
room adjective.
97         Room x = new Room(6);
98         assertEquals(x.roomAdj, "Error: Invalid room number");
99     }
100
101     @Test
102     public void testGetObjDescription() {
103         //check that all variables are set properly for room 0
104         //make sure the north door, south door, cream coffee and sugar are in
the correct states
105         //since they are hard-coded in.
106         String[] objArray={"a statue of Bill Laboon", "Amazon's best-seller,
\"A Friendly Introduction to Software Testing\" by THE Bill Laboon",
107             "an autographed photo of Bill Laboon", "\"Hackin' Fellow\"
on repeat 'cause it's such an amazing song", "a broken record", "RentACat
cats"};
108         for(int i=0;i<6;i++)
109         {
110             Room x = new Room(i);
111             assertEquals(x.objAdj,objArray[i]);
112         }
113     }
114
115     @Test
116     public void testGetObjectInRoomCream() {
117         //verify that the getObject in room returns the correct int for room
0
118         //this room has cream, so verify it returns properly
119         Room x = new Room(0);
120         assertEquals(x.getObjectInRoom(),2);
121     }
122
123     @Test
124     public void testGetObjectInRoomCoffee() {
125         //verify that the getObject in room returns the correct int for room
1
126         //this room has coffee, so verify it returns properly
127         Room x = new Room(1);
128         assertEquals(x.getObjectInRoom(),3);
129     }
130
131     @Test
132     public void testGetObjectInRoomSugar() {

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```
133         //verify that the getObject in room returns the correct int for room
134         //this room has sugar, so verify it returns properly
135         Room x = new Room(5);
136         assertEquals(x.getObjectInRoom(),1);
137     }
138 }
139 @Test
140 public void testGetObjectInRoomFail() {
141     //verify that the getObject in room returns the correct int for room
142     //this room has nothing, so verify it returns properly
143     Room x = new Room(3);
144     assertEquals(x.getObjectInRoom(),0);
145 }
146 }
147
148 @Test
149 public void testGetNorthDoorTrue(){
150     //verify that the setters and getters for North Door work
151     //we test room 0, which is a valid room
152     Room x = new Room(0);
153     x.setNorthDoor();
154     assertTrue(x.getNorthDoor());
155 }
156
157 @Test
158 public void testGetNorthDoorFalse(){
159     //verify that the setters and getters for North Door work, if north
160     //door is set to false.
161     //we test room 0, which is a valid room
162     Room x = new Room(5);
163     assertFalse(x.getNorthDoor());
164 }
165
166 @Test
167 public void testGetSouthDoorTrue(){
168     //verify that the setters and getters for South Door work
169     //we test room 0, which is a valid room
170     Room x = new Room(0);
171     x.setSouthDoor();
172     assertTrue(x.getSouthDoor());
173 }
174 }
```