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1  /**
2  * Door.java
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4  * Date:12-10-16
5  *
6  * This class simulates a Door object in which it takes in a weight value, which
7  * corresponds to a designated key, a message when the door is locked and a message when the door
8  * is unlocked.
9  * Door locking/unlocking allows for another layer of fun for the player on top of
10 * the maze-like structure of our game.
11 * Note that a weight of 0 means the door is unlocked and no locked msg is present.
12 */
13
14 public class Door {
15     private String lockedMsg, unlockedMsg;
16     private int weight;
17
18     /** Constructor */
19     public Door(int weight, String lockedMsg, String unlockedMsg) {
20         this.weight = weight;
21         this.lockedMsg = lockedMsg;
22         this.unlockedMsg = unlockedMsg;
23     }
24
25     /** Checks to see if the key is the correct one to unlock this particular door.
26      * @param: Key checkKey @return: boolean rightKey*/
27     public boolean rightKey(Key key){
28         return GameMap.getAllKeys().get(weight).compareTo(key) == 0;
29     }
30
31     /** Returns the weight of the door. */
32     public int getWeight() {
33         return weight;
34     }
35
36     /** Returns the unlocked message of the door. */
37     public String getUnlockedMsg() {
38         return unlockedMsg;
39     }
40
41     /** Returns the locked message of the door. */
42     public String getLockedMsg() {
43         return lockedMsg;
44     }
45
46     /** Returns whether the door is locked or not. */
47     public boolean isLocked() {
48         return weight > 0;
49     }
50
51     /** Returns formatted String representation of Door object. */
52     public String toString() {
53         return weight + " || " + lockedMsg + " || " + unlockedMsg;
54     }
55 }

```