

An executive summary (summary.pdf) that briefly describes

1. Your testing approach. Include a brief description of any test harness or other code that you created to perform the testing. Also, indicate any testing tools that you used.

My approach was to 1) use tests with valid input and check to be sure valid output or change of state was produced and 2) to use invalid input to check to be sure the code either handled such input correctly or the correct exception was thrown. . I used JUnit 4 testCase's and testSuite as per the assignment instructions. I also wrote a single helper method within the testRoom class to more specific input verification.

2. The number of tests run in test categories.

testDoor: 5 tests

testPlayer: 14 tests

testRoom: 11 tests

3. Coverage or other indication of the completeness of testing for the eight listed methods. If you did not achieve 100% coverage for the listed methods, explain why you could not achieve 100% coverage.

**class Door**

enter: 100%

**class Player**

go: 100%

pickUp: 100%

drop: 100%

**class Room**

addItem: 100%

removeItem: 100%

enter: 100%

exit: 100%

4. A list of all failures that you produced through testing. For each failure, identify and describe the test case and the failure observed: describe the test inputs and input state, the expected, and actual behavior.

#### **testGoThroughDoorWithoutKey**

For this test there were two rooms connected by a door, the key to the door and a player.

The player was in the testRoom1 and did not posses the key.

When I called the method go, the expected result was that the player should not have moved through the door, but the actual behavior was that the player did go through the door.

#### **testPickUpItemNotInRoom**

For this test there was a single room, two items, and a player.

The room contained the second item and was the player's location.

When I called the method `pickUp` with the input of the first time, the expected behavior was that player should not have obtained the first item, yet the player did get the first item.

### **Git Transcript**

Because I didn't know we were to use git for this individual assignment, I did not use it for my version control.