

WorldConsoleControllerTest.java

After every turn, controller will show the current player info (health, current position, name, etc.). A player will have the option to see the surrounding spaces, weapons in those spaces, and the player information (current position and weapons they have)

```
// Input where the q comes
// Input where non-integer garbage comes instead of the expected value
// Input where the move is integers (space index), but outside the bounds of the board
// Input where the move is integers(space index), but invalid because the player has
reached the maximum turns.
// Multiple invalid moves.
// Input including valid moves interspersed with invalid moves, game is played to
completion
// What happens when the input ends "abruptly" -- no more input, but not quit, and
game not over
// Test if the health returned is correct
// Test if the weapon shown in a particular space is valid
// Test if the available spaces to move is valid
// Test if player moves if not allowed
// Test if player moves if not allowed
// Test if game ends with a winner
// Test if the game ends with the correct winner
// Test if the computer-player moves in the correct spaces.
// Test if the weapons present in a particular space
// Test if the correct weapons are present in a particular space
// Test if the player has reached the max limit of having weapons
// Test valid moves
// Test invalid moves
// Test if the player dies if the health reduces below zero
// Test valid turns
// Test invalid turns
```

WorldModel.java

```
//Test if returns valid player info
//Test if returns valid space info
//Test if return valid weapon info
//Test if returns all the players
//Test if returns all the spaces
```

```

//Test if returns weapons info
//Test if returns valid world description
//Test if space has valid weapons
//Test if space has valid players
//test if space has valid neighbor

public void testIfFileParsing()
/**
 * Testing illegal world description.
 */
@Test(expected = IllegalArgumentException.class)
public void testInvalidWorldDescription()

/**
 * Testing file parsing.
 */
@Test
public void testParsing()

/**
 * Testing world details parsing errors.
 */
@Test(expected = IllegalArgumentException.class)
public void testParsingErrors()

/**
 * Testing invalid room and weapons while parsing.
 */
@Test(expected = IllegalArgumentException.class)
public void testInvalidRoomAndWeapon()

/**
 * Testing invalid world description.
 */
@Test
public void testInvalidWorldDescription2()
/**
 * Testing invalid room description.
 */
@Test

```

```

public void testInvalidRoomDescription()

/**
 * Testing invalid weapon description.
 */
@Test
public void testInvalidWeaponDescription()

/**
 * Testing room having zero neighbors.
 */
@Test(expected = NullPointerException.class)
public void zeroNeighborTest()

/**
 * Testing room having one neighbor.
 */
@Test
public void oneNeighborTest()

/**
 * Testing description of room having one neighbor.
 */
@Test
public void oneNeighborDescTest()

/**
 * Testing multiple neighbors.
 */
@Test
public void multipleNeighborTest()

/**
 * testing one item description.
 */
@Test
public void oneItemDescTest()

/**
 * Testing no item description.

```

```

*/
@Test
public void noItemDescTest()

/**
 * Target Character Starting Position Test.
 */
@Test
public void targetCharacterStartingPositionTest()

/**
 * target Character Move Test.
 */
@Test
public void targetCharacterMoveTest() throws GameOverException

/**
 * target Character Move Zero To One Test.
 */
@Test
public void targetCharacterMoveZeroToOneTest()

/**
 * target Character Any Move Test.
 */
@Test
public void targetCharacterAnyMoveTest() throws GameOverException

/**
 * target Character Move End Start.
 */
@Test(expected = GameOverException.class)
public void targetCharacterMoveEndStart() throws GameOverException

/**
 * verifying correctness of the world image.

```

```
*  
*/  
@Test  
public void verifyImageWorld() throws IOException
```

FailingAppendable.java

```
@Override  
public Appendable append(CharSequence csq) throws IOException {  
    throw new IOException("Fail!");  
}  
  
@Override  
public Appendable append(CharSequence csq, int start, int end) throws IOException {  
    throw new IOException("Fail!");  
}  
  
@Override  
public Appendable append(char c) throws IOException {  
    throw new IOException("Fail!");  
}
```

To launch your controller, I have include *adriver* that handles the command-line arguments. The file containing the world specification as well as the maximum number of turns allowed in the driver class. The driver will have input in the form of **System.in** and the output will be **System.out**. If a player presses 'q' or 'Q', they will be removed from the game. All players are name identified.

