Important Code Statistics:

This assignment, for the most part, was pretty straightforward. The only remotely difficult aspect of the assignment was determining what exactly the instructor was expecting from our submission. However, I am confident that my solution works well. The PushdownButton.java class is separate from the Button.java class. TableLamp.java utilizes the Button class, whereas PushdownTableLamp.java utilizes the PushdownButton class.

The following are some important statistics about my code:

Lightbulb.java:
Lines of Code: 14
Cyclomatic Complexity of on(): 1
Cyclomatic Complexity of off(): 1

LightbulbTest.java:
Lines of Code: 15
Cyclomatic Complexity of testOn(): 1
Cyclomatic Complexity of testOff(): 1

Button.java:
Lines of Code: 16
Cyclomatic Complexity of switchOn(): 1
Cyclomatic Complexity of switchOff(): 1

ButtonTest.java
Lines of Code: 16
Cyclomatic Complexity of testOn(): 1
Cyclomatic Complexity of testOff(): 1

PushdownButton.java
Lines of Code: 22
Cyclomatic Complexity of pushButton(): 2

PushdownButtonTest.java
Lines of Code: 14
Cyclomatic Complexity of testPush(): 1

TableLamp.java
Lines of Code: 14
Cyclomatic Complexity of powerOn(): 1
Cyclomatic Complexity of powerOff(): 1

TableLampTest.java
Lines of Code: 15

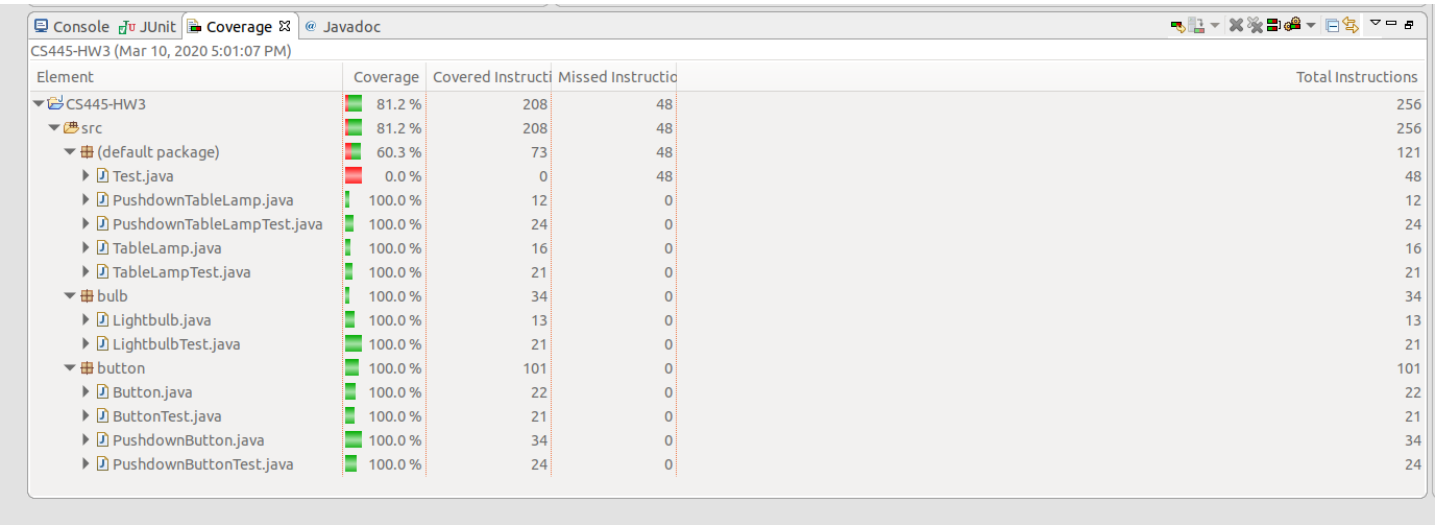
Cyclomatic Complexity of testPowerOn(): 1
Cyclomatic Complexity of testPowerOff(): 1

PushdownTableLamp.java
Lines of Code: 10
Cyclomatic Complexity of power(): 1

PushdownTableLampTest.java
Lines of Code: 13
Cyclomatic Complexity of testPower(): 1

Test.java
Lines of Code: 22
Cyclomatic Complexity of main(): 1

Unit Test Coverage using ECLEmma Java Code Coverage 3.1.2 Eclipse Plugin:



Element	Coverage	Covered Instructi	Missed Instructio	Total Instructions
CS445-HW3	81.2 %	208	48	256
src	81.2 %	208	48	256
(default package)	60.3 %	73	48	121
Test.java	0.0 %	0	48	48
PushdownTableLamp.java	100.0 %	12	0	12
PushdownTableLampTest.java	100.0 %	24	0	24
TableLamp.java	100.0 %	16	0	16
TableLampTest.java	100.0 %	21	0	21
bulb	100.0 %	34	0	34
Lightbulb.java	100.0 %	13	0	13
LightbulbTest.java	100.0 %	21	0	21
button	100.0 %	101	0	101
Button.java	100.0 %	22	0	22
ButtonTest.java	100.0 %	21	0	21
PushdownButton.java	100.0 %	34	0	34
PushdownButtonTest.java	100.0 %	24	0	24