Memo for homework #3

1 Lines of code:

**Result**

| Detail | Summary | Report |

| File | Type | Total Lines | Code lines | Code//Co... | Comment ... | Blank lines |
|------|------|-------------|------------|-------------|-------------|-------------|
| ButtonTest.java | .java | 65 | 33 | 0 | 22 | 10 |
| ChainButtonTest.java | .java | 85 | 39 | 0 | 25 | 21 |
| Client.java | .java | 43 | 19 | 0 | 12 | 12 |
| ClientTest.java | .java | 42 | 18 | 0 | 16 | 8 |
| LightbulbTest.java | .java | 68 | 31 | 0 | 19 | 18 |
| Button.java | .java | 62 | 26 | 0 | 22 | 14 |
| Buttons.java | .java | 19 | 6 | 0 | 7 | 6 |
| ChainButton.java | .java | 69 | 33 | 0 | 15 | 21 |
| Lightbulb.java | .java | 41 | 18 | 0 | 10 | 13 |
| Lightbulbs.java | .java | 18 | 6 | 0 | 7 | 5 |

The unit test are end with Test

2 Coverage and cycloramic complexity

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## default

| Element | Missed Instructions | Cov. | Missed Branches | Cov. | Missed | Cxty | Missed | Lines | Missed | Methods | Missed | Classes |
|---------|--------------------|------|-----------------|------|--------|------|--------|-------|--------|---------|--------|---------|
| Client | | 92% | | n/a | 1 | 2 | 2 | 12 | 1 | 2 | 0 | 1 |
| ChainButtonTest | | 100% | | n/a | 0 | 7 | 0 | 20 | 0 | 7 | 0 | 1 |
| ButtonTest | | 100% | | n/a | 0 | 6 | 0 | 15 | 0 | 6 | 0 | 1 |
| LightbulbTest | | 100% | | n/a | 0 | 6 | 0 | 15 | 0 | 6 | 0 | 1 |
| ClientTest | | 100% | | n/a | 0 | 4 | 0 | 7 | 0 | 4 | 0 | 1 |

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## Buttons

| Element | Missed Instructions | Cov. | Missed Branches | Cov. | Missed | Cxty | Missed | Lines | Missed | Methods | Missed | Classes |
|---------|--------------------|------|-----------------|------|--------|------|--------|-------|--------|---------|--------|---------|
| ChainButton | | 100% | | 100% | 0 | 6 | 0 | 17 | 0 | 5 | 0 | 1 |
| Button | | 100% | | n/a | 0 | 4 | 0 | 13 | 0 | 4 | 0 | 1 |
| Total | 0 of 73 | 100% | 0 of 2 | 100% | 0 | 10 | 0 | 30 | 0 | 9 | 0 | 2 |

CS445-HW (Oct 10, 2016 5:16:22 PM) > CS445-HW > HW03 > Lightbulbs

## Lightbulbs

| Element | Missed Instructions | Cov. | Missed Branches | Cov. | Missed | Cxty | Missed | Lines | Missed | Methods | Missed | Classes |
|---------|--------------------|------|-----------------|------|--------|------|--------|-------|--------|---------|--------|---------|
| Lightbulb | | 100% | | n/a | 0 | 4 | 0 | 10 | 0 | 4 | 0 | 1 |
| Total | 0 of 23 | 100% | 0 of 0 | n/a | 0 | 4 | 0 | 10 | 0 | 4 | 0 | 1 |

Cxty Column shows cycloramic complexity for each java class.

3. Difficulties encountered

Not obvious difficulty encountered. Maybe documentation is the hardest part.