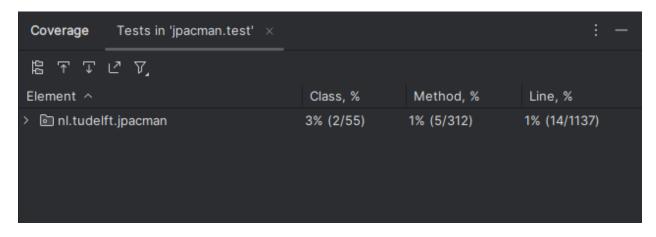
Task 1 – JPacman Test Coverage

Initial Coverage



Is the coverage good enough?

Simply put, no. The coverage is not nearly extensive to confirm a viable working product.

Task 2 – Increasing Coverage on JPacman

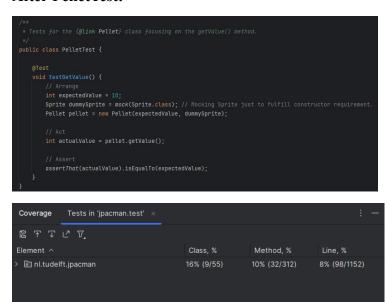
After PlayerTest:

```
/**
    * New Test Case example
    * @author John Businge
    */
new *

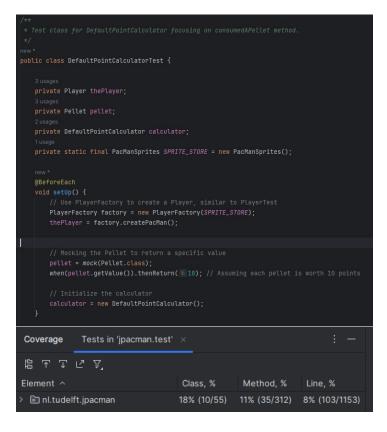
public class PlayerTest {
    /**
        * I prefer to save the instances for this test in particular
          * because it is really a pain to instantiate Player, and I
          * will want to test other methods of Player in here.
          */
          1usage
          private static final PacManSprites SPRITE_STORE = new PacManSprites();
          1usage
          private PlayerFactory Factory = new PlayerFactory(SPRITE_STORE);
          1usage
          private Player ThePlayer = Factory.createPacMan();

          new *
          @Test
          void testAlive(){
                assertThat(ThePlayer.isAlive()).isEqualTo( expected true);
        }
}
```

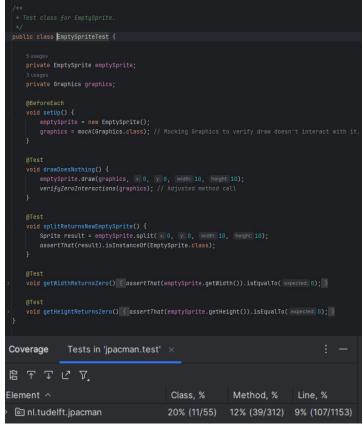

After PelletTest:



After DefaultPointCalculatorTest:



After EmptySpriteTest:



Task 3 – JaCoCo Report on JPacman (10 points)

Are the coverage results from JaCoCo similar to the ones you got from IntelliJ in the last task? Why so or why not?

They are similar in the fact that they provide for the ability to drill down to see class method coverage to the line. However, They appear to calculate test coverage in different ways which can lead to slightly different results.

Did you find helpful the source code visualization from JaCoCo on uncovered branches?

Absolutely, the visualization provided by JaCoCo was very helpful when drilling down to induvial branches. It allowed me to clearly see the parts of the code that are not yet covered by tests.

Which visualization did you prefer and why? IntelliJ's coverage window or JaCoCo's report?

Personally, I prefer JaCoCo's report as it is more detailed, providing in-depth insights, which might be preferred for a thorough analysis of test coverage.

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