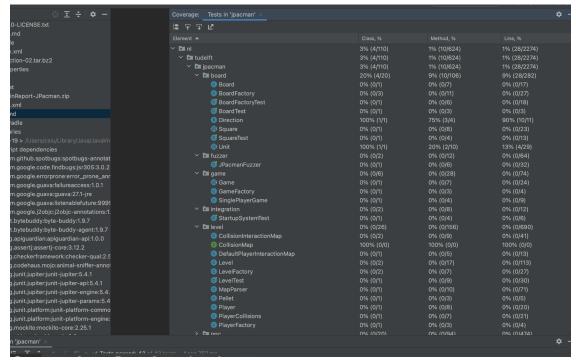
# Repository:

https://github.com/yaaacii/jpacman

### Task 1:

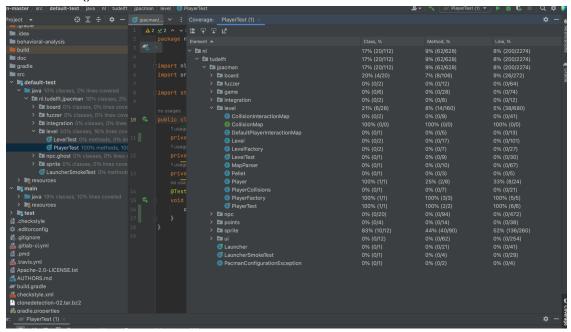
Before isAlive()



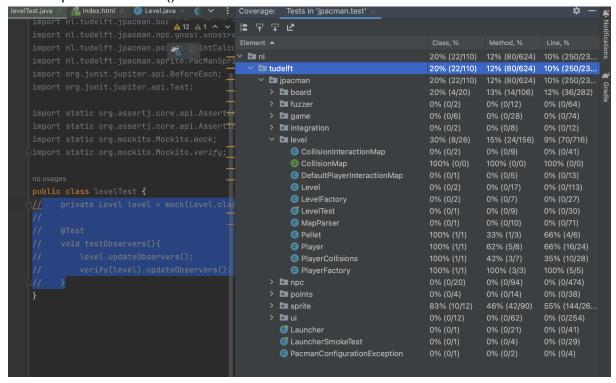
Question: Is this coverage good enough?

Answer: No. The higher the coverage the better. The best code coverage should be above 85%

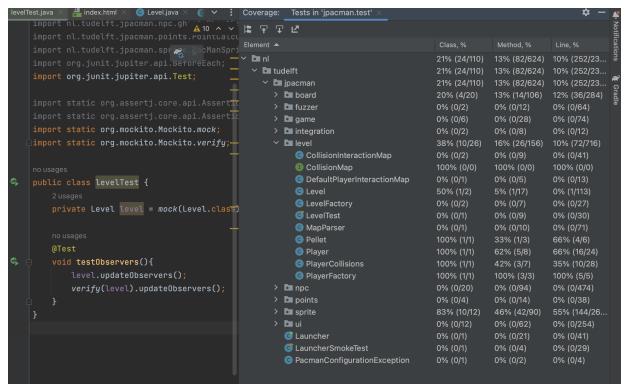
Task 2: After isAlive()



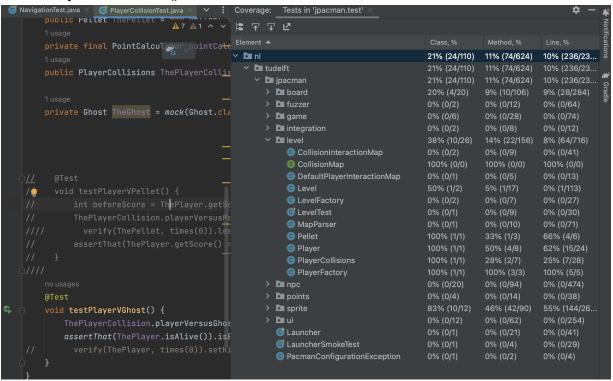
Task 2.1: Test1: Before updateObservers():



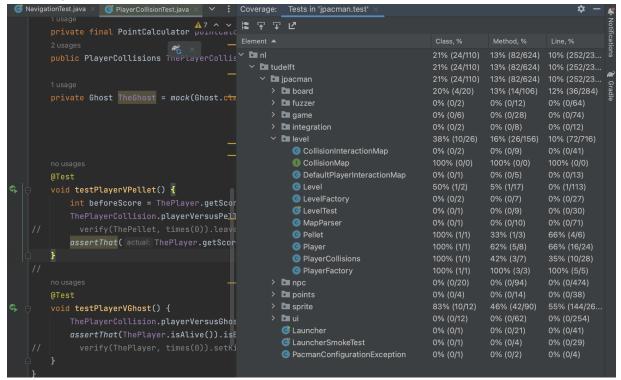
After updateObservers():



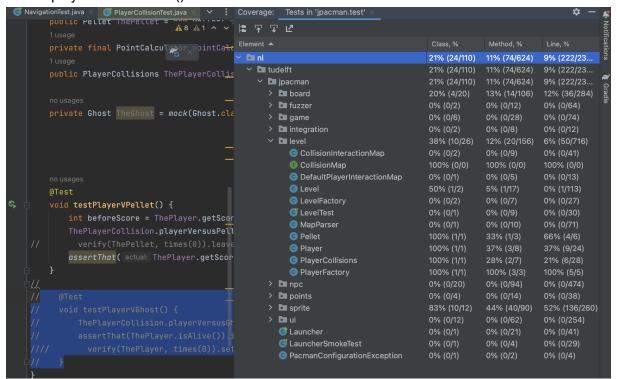
Test2:
Before PlayerVersusPellet():



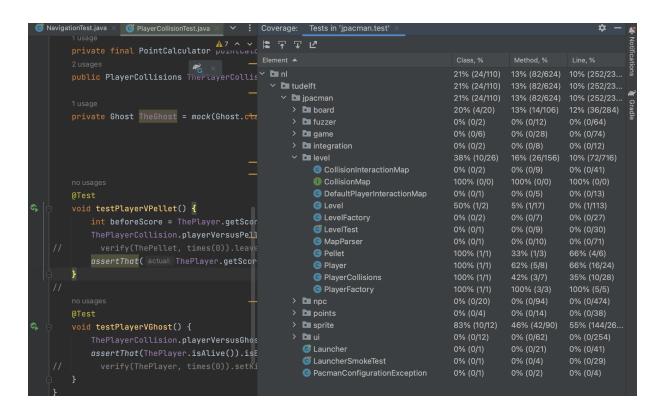
# After PlayerVersusPellet():



Test 3: Before playerVersusGhost():



After playerVersusGhost():



Code Snippets:

### Task 3:

```
return inProgress;

/**

* Updates the observers about the state of this level.

*/

void updateObservers() {

if (!isAnyPlayerAlive()) {

for (LevelObserver observer : observers) {

observer.levelLost();

}

}

if (remainingPellets() == 0) {

for (LevelObserver observer : observers) {

observer.levelWon();

}

observer.levelWon();

}

}
```

### **Questions:**

- Are the coverage results from JaCoCo similar to the ones you got from IntelliJ in the last task? Why so or why not?
  - The results from JaCoCo are similar enough, but there are some differences.
- Did you find helpful the source code visualization from JaCoCo on uncovered branches?
  - The source code visualization from JaCoCo helps to show which part of the code I need to add to my unit test.
- Which visualization did you prefer and why? IntelliJ's coverage window or JaCoCo's report?
  - I liked JaCoCo's report because it has more information where I can see where their numbers are coming from and I like the source code visualization.

```
67.
68.
69.
70.
71.
72.
73.
74.
75.
76.
77.
80.
81.
            * Actual case of player bumping into ghost or vice versa.
               @param player
            * The player involved in the collision.
* @param ghost
                           The ghost involved in the collision.
           public void playerVersusGhost(Player player, Ghost ghost) {
    pointCalculator.collidedWithAGhost(player, ghost);
    player.setAlive(false);
                player.setKiller(ghost);
82.
            * Actual case of player consuming a pellet.
84.
85.
               @param player
86.
87.
            * The player involved in the collision.
* @param pellet
                            The pellet involved in the collision.
88.
89.
90.
           public void playerVersusPellet(Player player, Pellet pellet) {
                pointCalculator.consumedAPellet(player, pellet);
pellet.leaveSquare();
91.
93.
95. }
```