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https://github.com/rlb97/QA-Deliverable-2

CS 1632 - DELIVERABLE 2: Unit Testing CitySim9005

Introduction:

By far my biggest problem while writing these CitySim9005 unit tests was trying to find a way to advantageously include method stubbing. I broke up my program into several classes, none of which possessed any complicated methods (i.e. methods which call other methods). The only method which does so is my main method, and the method *it* calls is private so it is not supposed to be unit tested anyway.

“Faking” was easy enough to include in my unit tests, as I could add mocked objects to ArrayLists and then check to see if their occupancy totals were incremented correctly. All the other unit tests in my CitySim9005Test.java file are very simple and were simple enough to implement. All of my automatic tests pass.

Another problem I had was trying to get my TestRunner.java to print out the names of all the tests which successfully passed, I never did figure it out. I apologize if the screenshot on the following page is not descriptive enough, but it is all my command prompt displayed back to me, I know that IDE’s like Eclipse tend to have a better visual display of passed tests. The “ERROR:” lines are from tests trying to set object fields to null, they are intended.

All the files for this Deliverable are in my GitHub repository, below are the compile/run commands I used to get my program to work with all repository files in the same director.. I was working on Windows10 so I had to add the “” marks and replace the :’s with ;’s.

**To Compile:**

javac -cp ".;./junit-4.12.jar;./hamcrest-core-1.3.jar;./mockito-all-1.10.19.jar" \*.java

**To Run(CitySim9005):**

java CitySim9005 X //“Where X is some int seed”

**To Run (Unit Tests):**

java -cp ".;./junit-4.12.jar;./hamcrest-core-1.3.jar;./mockito-all-1.10.19.jar" TestRunner

“ALL TESTS PASSED” Screenshot

