

CompSci 251: Intermediate Computer Programming

Lab 1 – Fall 2018

This lab will focus on reading and understanding third-party code, running JUnit tests, and debugging. First, download the Lab 1 compressed file from D2L, unzip it, create a new project, and import the java files into the project. You may delete the package lab1 at the top of both files if you want or create and place these in a lab1 package. Because this project uses additional libraries (JUnit 4), import the JUnit 4 library to your project. See the attached sheet for how to do so or ask your TA if you are struggling.

The compressed file contains two files. Util is a simple file with three methods. UtilTest is a test case file which contains multiple test methods. Each test method has assert statements which compare an expected output with an actual output. If all of the assertions pass, then the test method passes. If any of the assertions fail, then there likely is a mistake in the implementation.

I have placed some comments in the UtilTest to explain some of the methods used there. Please read these to make more sense of these tests.

Have the UtilTest file open and run the file. Only one of the three tests should pass and the bar in the top left will turn red. When all test pass the bar will turn green.

To get all tests to pass, you will need to do two things.

First, finish implementing the reversed method. You shouldn't need much code to get this test to pass. You also are not allowed to copy the contents of reverse. This method must return a new array.

Second, there is bug in sumOfPostives method. You need to find it and fix it. I suggest using the debugger for this portion even though it may not be necessary.

When all test cases pass, have your TA look over your work to pass you for the lab.