

Luis Ng Tang
Professor. Xiao
SSW 567
HW 2

1. Assignment description:

Sometimes you will be given a program that someone else has written, and you will be asked to fix, update and enhance that program. In this assignment you will start with an existing implementation of the classify triangle program that will be given to you. You will also be given a starter test program that tests the classify triangle program, but those tests are not complete.

- These are the two files: Triangle.py and TestTriangle.py
 - [Triangle.py](#) is a starter implementation of the triangle classification program.
 - [TestTriangle.py](#) contains a starter set of unittest test cases to test the classifyTriangle() function in the file Triangle.py file.

In order to determine if the program is correctly implemented, you will need to update the set of test cases in the test program. You will need to update the test program until you feel that your tests adequately test all of the conditions. Then you should run the complete set of tests against the original triangle program to see how correct the triangle program is. Capture and then report on those results in a formal test report described below. For this first part you should not make any changes to the classify triangle program. You should only change the test program.

Based on the results of your initial tests, you will then update the classify triangle program to fix all defects. Continue to run the test cases as you fix defects until all of the defects have been fixed. Run one final execution of the test program and capture and then report on those results in a formal test report described below.

Note that you should NOT simply replace the logic with your logic from Assignment 1. Test teams typically don't have the luxury of rewriting code from scratch and instead must fix what's delivered to the test team.

[Triangle.py](#) contains an implementation of the classifyTriangle() function with a few bugs.

[TestTriangle.py](#) contains the initial set of test cases

2. Author:

Luis Ng Tang

3. Summary:

In this assignment I had to take a pre-made buggy code and use unittest to test how the code was working. Throughout the process of testing the code I realized that there were certain bugs in the main function that had to be fixed for the code to work properly. Before modding the main function, I created more tests to check any other possible errors in the code, which indeed came

back as errors using the buggy code. Once I created more tests, I started modifying the main function to see if the tests were working as expected. In the end, I had 10 total tests and all of them passed after I modified the main function. This is a really good result compared to the 2/10 passed scores that I had before I modified the main function. After finishing the assignment I learned to have more attention to detail, and to check every single line of code before you run it, since sometimes the smallest thing can cause a bug and your code will not work.

4. Honor pledge

This work was done on my own, and I didn't receive anyone's help that wasn't the professor or TA.