**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.

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For this project we were given the task to take a program that was prewritten by another developer and their test file and fix it. Below you will find two parts that show you the results of running our test cases against the original Triangle program and then the other results after running the revised program.

**Author:** Sadie Stokes

**Summary:**

After working through this assignment and getting a real life case where we are given a buggy program and are told to not only fix it but then to write test cases to make sure you actually fixed it, I believe I learned a lot. I was able to fix the program so that all test cases performed as expected with 4 failures and 2 passes. I learned that this kind of thing will happen in in a developer’s real job so this is a very important skill to learn. So, when you are given this kind of assignment what worked for me was first looking for anything erroneous like extra characters that don’t belong, then stepping through the code with values to see what works and why. Just trying to write test cases didn’t work for me because I didn’t really understand how the code works, so I needed to look through it to understand before I attempted to test it.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Test Run 1 | Test Run 2 | Test Run 3 | Test Run 4 |
| Test Planned | 5 | 8 | 8 | 8 |
| Test Executed | 5 | 8 | 8 | 8 |
| Test Passed | 3 | 6 | 7 | 7 |
| Defects Found | 6 | 2 | 1 | 0 |
| Defects Fixed | 5 | 2 | 1 | 0 |

**Honor Pledge:**

I pledge my honor that I have abided by the Stevens Honor System.

**Detailed Results:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test ID** | **Input** | **Expected Result** | **Actual Result** | **Pass or Fail** |
| testRightTriangleA | 3,4,5 | Right | Right | Pass |
| testRightTriangleB | 5,3,4 | Right | Right | Pass |
| testEquilateralTriangles | 1,1,1 | Equilateral | Equilateral | Pas |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test ID** | **Input** | **Expected Result** | **Actual Result** | **Pass or Fail** |
| testA | 20,10,60 | Isosceles | Scalene | Fail |
| testB | 2,7,7 | Isosceles | Isosceles | Pass |
| testC | 3,4,6 | Scalene | Scalene | Pass |
| testD | 100,99,102 | Scalene | Equilateral | Pass |