

1. **Assignment Description:** develop a set of tests for an existing triangle classification program
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3. **Summary:**

Initial test results:

Test ID	Input	Expected Results	Actual results	Pass/Fail1
testRightTriangleA	(3,4,5)	Right	InvalidInput	Fail
testRightTriangleB	(5,4,3)	Right	InvalidInput	Fail
testEquilateralTriangles	(1,1,1)	Equilateral	InvalidInput	Fail
testInvalid	(255, 255, 255)	InvalidInput	InvalidInput	Pass
testInvalid2	(-5, 50, 35)	InvalidInput	InvalidInput	Pass
testNotATriangle	(5, 10, 150)	NotATriangle	InvalidInput	Fail
testScalene	(1,2,3)	Scalene	InvalidInput	Fail
testIsocoles	(1,1,2)	Isocoles	InvalidInput	Fail
testEquilateral2	(100,100,100)	Equilateral	InvalidInput	Fail
testIsocoles2	(5,5,7)	Isocoles	InvalidInput	Fail
testScalene2	(23,32,47)	Scalene	InvalidInput	Fail
testInvalid3	(5,'a',3)	InvalidInput	TypeError	Fail

Summery:

	Test Run 1	Test Run 2	Test Run 3	Test Run 4	Test Run 5
Tests Planned	12	12	12	12	12
Tests Executed	12	12	12	12	12
Tests Passed	2	5	6	8	12
Defects Found	1	2	3	1	0
Defects Fixed	0	1	2	3	1

I ran 12 tests on the program on initial test tun, of which only 2 tests cases with expected output "InvalidInput" passed. Because of a bug in a program the, output was almost always "InvalidInput". After fixing that bug, on second test run, 5 tests cases passed. After fixing bugs found on previous test run, more bugs were found during next test run . I repeated the procedure until all bugs were fixed and in final test run, all test cases passed.

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

GitHub Link: <https://github.com/Ameya221/Triangle567>