Assignment Description:

I started with an outdated, flawed triangle categorization for this work. I added the necessary test cases to the unit testing program and fixed the errors till the application was functional.

Sanika More

Summary:

Using my test program, I found 6 flaws. With a program like this, where there are numerous potential outputs, using a unit test program is beneficial. It is simpler to isolate the issue when you can see which tests are failing.

Summary Matrix

	Test Run 1	Test Run 2	Test Run 3
Tests Planned	13	13	13
Tests Executed	13	13	13
Tests Passed	0	7	13
Defects Found	6	0	0
Defects Fixed	5	1	0

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

Detailed Results:

Testing Legacy Program's Defects:

Test ID	Input	Expected Results	Actual Result	Pass Or Fail
testScaleneTriangles	571	Scalene	InvalidInput	Fail
testScaleneTriangles2	10 3 5	Scalene	InvalidInput	Fail
testRightTriangles	3 4 5	Right	InvalidInput	Fail
testRightTriangles2	5 3 4	Right	InvalidInput	Fail
testRightTriangles3	453	Right	InvalidInput	Fail
testEquilateralTriangles	111	Equilateral	InvalidInput	Fail
testEquilateralTriangles2	3 3 3	Equilateral	InvalidInput	Fail
testIsoscelesTriangles	5 5 1	Isosceles	InvalidInput	Fail
testIsoscelesTriangles2	515	Isosceles	InvalidInput	Fail
testIsoscelesTriangles3	155	Isosceles	InvalidInput	Fail
testInvalidTriangles	135	NotATriangle	InvalidInput	Fail
testInvalidTriangles2	145	NotATriangle	InvalidInput	Fail
testInvalidTriangles3	101	NotATriangle	InvalidInput	Fail

After Fixing Defects:

>	p	y	t	h	O	n		m	u	nittest	TestTriangle	

Ran 13 tests in 0.007s

OK

Test ID	Input	Expected Results	Actual Result	Pass Or Fail
testScaleneTriangles	571	Scalene	Scalene	Pass
testScaleneTriangles2	10 3 5	Scalene	Scalene	Pass
testRightTriangles	3 4 5	Right	Right	Pass
testRightTriangles2	5 3 4	Right	Right	Pass
testRightTriangles3	453	Right	Right	Pass
testEquilateralTriangles	111	Equilateral	Equilateral	Pass
testEquilateralTriangles2	3 3 3	Equilateral	Equilateral	Pass
testIsoscelesTriangles	551	Isosceles	Isosceles	Pass
testIsoscelesTriangles2	515	Isosceles	Isosceles	Pass
testIsoscelesTriangles3	155	Isosceles	Isosceles	Pass
testInvalidTriangles	135	NotATriangle	NotATriangle	Pass
testInvalidTriangles2	145	NotATriangle	NotATriangle	Pass
testInvalidTriangles3	101	NotATriangle	NotATriangle	Pass

https://github.com/SANIKA1809/Triangle567sm.git