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I started with an outdated, flawed triangle categorization for this work.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	11	11	11
Tests Executed	11	11	11
Tests Passed	0	7	11
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	10 11 12	Scalene	InvalidInput	Fail
testScaleneTriangles2	423	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	551	Isosceles	InvalidInput	Fail
testIsoscelesTriangles2	515	Isosceles	InvalidInput	Fail
testIsoscelesTriangles3	155	Isosceles	InvalidInput	Fail
testInvalidTriangles	-1 3 5	NotATriangle	InvalidInput	Fail
testInvalidTriangles2	1-1 5	NotATriangle	InvalidInput	Fail

After Fixing Defects:

>p	y	th	10	n		m	u	nittest	TestTriangle
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Ran 13 tests in 0.007s

OK

Test ID	Input	Expected Results	Actual Result	Pass Or Fail
testScaleneTriangles	10 11 12	Scalene	Scalene	Pass
testScaleneTriangles2	423	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	333	Equilateral	Equilateral	Pass
testIsoscelesTriangles	551	Isosceles	Isosceles	Pass
testIsoscelesTriangles2	515	Isosceles	Isosceles	Pass
testIsoscelesTriangles3	155	Isosceles	Isosceles	Pass
testInvalidTriangles	-1 3 5	NotATriangle	NotATriangle	Pass
testInvalidTriangles2	1 -1 5	NotATriangle	NotATriangle	Pass

https://github.com/SANIKA1809/Triangle 567sm.git