Test Report for HW2a of SSW-567A

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1. Assignment Description:

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.

1. Testing summary

In this project, I know how to use testcase test then analysis the test method and modify it by the testcases’ error reporting. Specially, I learned how to use github desktop to clone the repository to my local path.

1. Initial testcase testing summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | Input | Expected Results | Actual Result | Pass or Fail |
| testRightTriangleA | 3,4,5 | ‘Right’, ‘3,4,5 is a Right triangle’ | InvalidInput | Failed |
| testRightTriangleB | 5,3,4 | ‘Right’, ‘5,3,4 is a Right triangle’ | InvalidInput | Failed |
| testEquilateralTriangles | 1,1,1 | ‘Equilateral’, ‘1,1,1 is a Equilateral triangle’ | InvalidInput | Failed |

1. Github repo link: <https://github.com/yclover/Triangle>
2. Screen shot for initial test

文本

描述已自动生成

1. Improved testcase testing summary

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Test ID | Input | Expected Results | Actual Results | Pass or Fail |
| testInvalidInputA | 1.5, 0.5, 1 | InvalidInput | InvalidInput | Pass |
| testInvalidInputB | -1, 5, 8 | InvalidInput | InvalidInput | Pass |
| testInvalidInputC | 201, 100, 150 | InvalidInput | InvalidInput | Pass |
| testIsTriangle | 16, 10, 5 | NotATriangle | NotATriangle | Pass |
| testRightTriangleA | 3, 4, 5 | Right | Right | Pass |
| testRightTriangleB | 5, 3, 4 | Right | Right | Pass |
| testEquilateralTriangleA | 1, 1, 1 | Equilateral | Equilateral | Pass |
| testEquilateralReiangleB | 10, 10, 10 | Equilateral | Equilateral | Pass |
| testScaleneTriangleA | 6, 7, 8 | Scalene | Scalene | Pass |
| testScaleneTriangleB | 10, 11, 12 | Scalene | Scalene | Pass |
| testIsoscelesTriangleA | 4, 4, 5 | Isosceles | Isosceles | Pass |
| testIsoscelesTriangleB | 10, 10, 15 | Isosceles | Isosceles | Pass |

1. Assignment summary

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Test Run 1 | Test Run 2 | Test Run 3 | Test Run 4 | Test Run 5 |
| Tests Planned | testRightTriangleA  testRightTriangleB  testEquilateralTriangleA | testIsTriangle | testIsoscelesTriangleA | testRightTriangleB | testIsoscelesTriangleA |
| Tests Executed | testRightTriangleA  testRightTriangleB  testEquilateralTriangleA | testIsTriangle | testIsoscelesTriangle | testRightTriangleB | testIsoscelesTriangleA |
| Tests Passed | All Failed | Failed | Failed | Failed | Failed |
| Defects Found | return“Invalidinput1” | return“Scalene” | return “Equilateral” | Return Scalene | Return Scalene |
| Defects Fixed | b <= b should be b <= 0 | Should cover all three condition that (a >= (b + c)) or (b >= (a + c)) or (c >= (a + b)) | The last condition is incorrect, should be a == c | Lost two conditions, should be ((a \* a) + (b \* b)) == (c \* c) or ((c \* c) + (b \* b)) == (a \* a) or ((a \* a) + (c \* c)) == (b \* b) | The last condition is incorrect, should be a != c |

1. Honor pledge

“I pledge on my honor that I have not given or received any unauthorized assistance on this assignment/examination. I further pledge that I have not copied any material from a book, article, the Internet or any other source except where I have expressly cited the source.”