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Software Testing Lab 1


Test Cases

Scenario:

Make test cases for a triangle that can differentiate between isosceles, equilateral, and scalene types based on sides length as input and state if their verdict is true/false. Make assumptions for actual outcome.

Prototype:

**Enter Equilateral, Scalene or Isoscele
Traingle Angles**



Enter Angle Values

Draw Triangle

Test case ID	Test case description	Input Data	Expected outcome	Actual outcome	Result
TC-01	To draw Equilateral triangle	(3,3,3)	Given Triangle is equilateral triangle	Triangle is equilateral triangle	Pass
TC-02	To not draw equilateral triangle	(3,0,3)	Given triangle is not equilateral triangle	Triangle is equilateral triangle	Fail
TC-03	To draw Isosceles triangle	(5,5,3)	Given Triangle is isosceles triangle	Triangle is isosceles triangle	Pass
TC-04	To not draw Isosceles triangle	(2,3,4)	Given triangle is not Isosceles triangle	triangle is not Isosceles triangle	Pass
TC-05	To draw Scalene triangle	(4,5,6)	Given Triangle is scalene triangle	Triangle is scalene triangle	Pass
TC-06	To draw not Scalene triangle	(4,4,5)	Given Triangle is not scalene triangle	Triangle is scalene triangle	Fail
TC-07	Not a Triangle (Sum of sides <= third side)	(2, 3, 6)	Not a Triangle	Not a Triangle	Pass
TC-08	Not a Triangle (One side > sum of other two)	(7, 3, 2)	Not a Triangle	Not a Triangle	Pass
TC-09	Not a Triangle (All sides are zero)	(0, 0, 0)	Not a Triangle	A Triangle	Fail
TC-10	Not a Triangle (One side is negative)	(-1, 2, 3)	Not a Triangle	Not a Triangle	Pass
TC-10	Not a Triangle (All sides are negative)	(-1, -2, -3)	Not a Triangle	Not a Triangle	Pass
TC-11	Zero side length	(0, 4, 5)	Not a Triangle	Not a Triangle	Pass
TC-12	Equilateral triangle: Two sides are equal (should be isosceles)	(5,5,6)	Not an equilateral triangle	Not an equilateral triangle	Pass

TC-13	Isosceles triangle: All sides are equal (should be equilateral)	(3,3,3)	Not an isosceles triangle	an isosceles triangle	Fail
TC-14	Isosceles triangle: Two sides are equal and one side is zero	(0,0,0)	Not an Isosceles triangle	Not an Isosceles triangle	Pass
Tc-15	Scalene triangle: All sides are equal (should be equilateral)	(7,7,7)	Not a scalene triangle	A scalene triangle	Fail
TC-16	Not a Triangle (one side greater than sum)	(8,3,4)	Not a triangle	Not a triangle	Pass