Test case #	Test Cases	Example	Expected Output	Reason for Particular Test
1	Valid non negative input	-1, -3, etc	Not a Triangle	To check if the program excludes negative length values which is invalid for a triangle
2	To check for traingle validity with user input varaible	2, 3, 1, etc	Not a Triangle	To check if 3 sides form a valid triangle, that is the sum of 2 sides should be greater than the 3rd side
3	Out of bound user input	2147483647	Out of Range	Check for arithmetic overflow
4	User input must be a valid integer	!, 2147483647	Inputs have to be positive integers that no greater than 2147483647	To check for invalid type of inputs
5	User input must only be an integer value	0.2, 2.0, 2..0	Please provide a valid non negative integer	To check for invalid types of inputs which are not an Int type
6	Is triangle Equilateral	N/A	Y / N	To check if all the sides' lengths are equal to one another and determine if the triangle is an equilateral
7	Is triangle Isosceles	N/A	Y / N	To check if the length of 2 sides are equal to one another and 1 side is different. Also checks if the triangle is an isosceles
8	Is triangle Scalene	N/A	Y / N	To check that all 3 side lengths are not the same and checks if the triangle is a scalene