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Software Testing Practical Lab 2

Design and develop a program in a language of your choice to solve the triangle problem defined as follows: Accept three integers which are supposed to be the three sides of a triangle and determine if the three values represent an equilateral triangle, isosceles triangle, scalene triangle, or they do not form a triangle at all. Assume that the upper limit for the size of any side is 10. (i) Derive test cases for your program based on boundary-value analysis, execute the test cases and discuss the results. (ii) Derive test cases for your program based on robustness testing, execute the test cases and discuss the results.

**Program** :

#include <iostream>

using namespace std;

int main()

{

int a,b,c;

cin>>a>>b>>c;

if(a>10 || a<0 && b>10 ||b<0 || c>10 ||c<0)

cout<<"Invalid Testcase!";

else if(a+b<c || b+c<a || a+c<b)

cout<<"Invalid Testcase!";

else if(a == b == c)

cout<<"Equilateral Triangle";

else if(a==b || b==c ||c==a)

cout<<"isosceles Triangle";

else

cout<<"Scelene Triangle";

return 0;

}

