CS 6340 – Spring 2013 – Assignment 8
Assigned: March 4, 2013
Due: March 13, 2013

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At the beginning of class on the due date, submit your neatly presented solution with this page stapled to the front (100 points).

Part 1

Your new position as Test Manager requires that you establish a set of requirements that developers will use for unit testing of the software that they write. Before you establish these requirements, you want to assess the fault-detection ability, expense, tool availability, etc. of various techniques that have been proposed in the literature. To do this, you will use a program, which we'll call **tritype**, that has the following requirements specification

> **tritype** takes as input three integer values. The three values are interpreted as representing the lengths of the sides of a triangle. The program prints a message that states whether the triangle is scalene, isosceles, or equilateral.

You are to do the following:

1. Use the specification to develop a set of test cases (a test suite) for **tritype** using two black box testing methods (both described in "EquivalencePartitioningBoundaryValue:"
   - Equivalence Partitioning
   - Boundary Value Analysis

2. Create a file of test cases (reason for test (in quotes), inputs, expected outputs) that consists of one test case per line; the number of the test case will be the line number in the file. For example, suppose I created two test cases:
   Test Case 1: isosceles 2 2 3 isosceles
   Test Case 2: equilateral 4 4 4 equilateral
   The file should contain
   "isosceles" 2 2 3 isosceles
   "equilateral" 4 4 4 equilateral

3. Send the test cases to Sangmin, and he'll send you the **tritype** program for the second part of the assignment. Let him know whether you want the C version or the Java version.

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The CFG for `tritype.c`: