CIS 15 Spring 2010 Lab II.3

These questions build on the classes you wrote in the previous lab. Hopefully you have those with you.

- 1. A first constructor.
 - This function extends class point (if you forgot point, it is specified below).
 - The constructor should take no arguments and it should set the value of x and y to 0.
 - Write a program that declares an object of class point and prints out the values of x and y to test that the constructor works.
- 2. A second constructor.
 - Write a new constructor for point which takes two numerical arguments.
 - Use these arguments to set the value of x and y.
 - Modify your program so that it tests both constructors.
- **3.** A third constructor.
 - Write a third constructor for point, one that has a single integer argument.
 - The constructor should set the value of x and y to a random number between 0 and the value of its parameter.
 - Modify your program so that it tests all three constructors.
- 4. Constructors for triangle.
 - Write a constructor for the triangle class.
 - The constructor should initialise the value of x and y for each point.
 - Modify your program so that it tests this new constructor.

Reminder

- The class point
 - The point class contains two private data members x and y.
 - The class contains public functions set(x, y) to set the values of x and y, functions getX(0 abd getY() to retrieve the values of x and y, and a function print() to print the values of x and y.
- The class triangle.
 - The class triangle has 3 private data members, each of which is a point object.
 - The class contains the public function print which prints the x and y values of the three point members of triangle.