### **BIL105E**

Introduction to Scientific and Engineering Computing 2014 Spring

# **Report of HW1**

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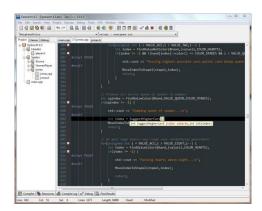
#### 1- Introduction

The purpose of this homework is to develop a C program to analyze triangles in coordinate system. The program calculates edge lengths, area, center of gravity, medians and type of the triangle, if the triangle is valid.

### 2-Development and Operating Environments

#### **MS Windows**

Orwell Dev-C++ (version 5.5.3) environment has been used to write the source code, compile and run the program.



#### Unix

The source code has been also copied to Unix, then compiled and tested with the

GNU C Compiler. The following is the commands used:

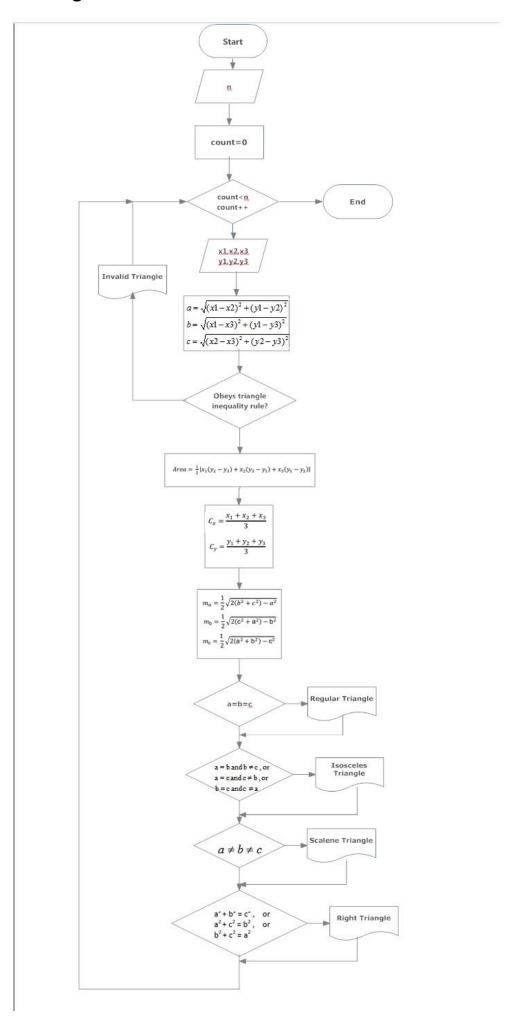
To compile: gcc -lm hw1.c -o hw1.exe

To run: ./hw1.exe

#### 3- Data Structures and Variables

No data structures were used in this program. The followings are the variables and their initial values:

# 4- Program Flow



## 5- Conclusion

Running a C program Windows and Unix is learned and SmartDraw is used for flowchart in this project.