COMPUTER PROGRAMMING
2016-2017 FALL TERM

HOMEWORK #2
Due Date : 21.10.2016 ; 23:55

1. Write a C program contains at least 3 functions. Your program should take form the user which shape is wished to be drawn and necessary parameters to draw that shape as input. As output the right shape should be drawn on the screen. 3 functions are as follow :

a) Draw_Triangle(integer starting_point, integer length, integer layer_type)

starting_point : represents location of summit of the triangle on the line

length : represents length of one edge of the triangle

layer_type : represents the number of layers that drawing has. (Either 1 or 2 : 1 layer shape will be drawn by "*"; 2 layers shape will be drawn by "* *")

b) Draw_Rectangle(integer starting_point, integer length, integer width integer layer_type)

starting_point : represents location of first left point of the rectangle on the line

length : represents length of the rectangle

width : represents width of the rectangle

layer_type : represents the number of layers that drawing has. (Either 1 or 2 : 1 layer shape will be drawn by "*"; 2 layers shape will be drawn by "* *")

c) Draw_Circle(integer center, integer radius, integer layer_type)

center : represents location of center of the circle

radius : represents radius of the circle

layer_type : represents the number of layers that drawing has. (Either 1 or 2 : 1 layer shape will be drawn by "*"; 2 layers shape will be drawn by "* *")

Example : Assume user wished to draw a rectangle with parameters 6, 3, 6, 2

the output should be look as follow

```
------**********
      **********
      **      **
      **      **
      **********
      **********
```

2. Assume the polynomials you are given in the file "polynomial.txt" that contains on the i-th line; - degree of the i-th polynomial,
- coefficients of the i-th polynomial,
- "x" value to apply, respectively.

Example : Assume you are given on 3^{rd} line
4 3 1 0 0 6 2 means;

4^{th} degree polynomial $P_3 = 3x^4 + x^3 + 6$

Applying x=2 $P_3 = 3*(2^4) + 2^3 + 6 = 62$

Write a C program to find minimum and maximum value of the polynomials in the file.