CSE 102 Assignment #1 (A1)

1. Write a C program to take input electricity unit charges as integer and calculate total electricity bill according to the given condition:

   - For first 50 units Tk. 0.50/unit
   - For next 100 units Tk. 0.75/unit
   - For next 100 units Tk. 1.20/unit
   - For unit above 250 Tk. 1.50/unit
   - An additional charge of 20% is added to the total bill.

Sample I/O:

Input	Output
20	12.00
75	52.50
1000	1614.00

2. Take as input 3 pairs of integers, A(x1,y1), B(x2,y2) and C(x3,y3), such that A, B and C forms a triangle in the Cartesian coordinate system. Write a C program to find out whether the triangle is Equilateral, Isosceles or Scalene. **Hint: check for triangle validity first**.

Sample I/O:

Input	Output
0 0 2 0 0 2	Isosceles
0 0 0 1 2 0	Scalene
0 0 2 0 4 0	Invalid Triangle

3. Write a C program that takes input 4 integers and outputs the maximum of them. **You can not use any nested If-else and any type of logical operators.**

Input	Output
4 9 2 1	9
8 8 5 8	8
2 1 7 3	7