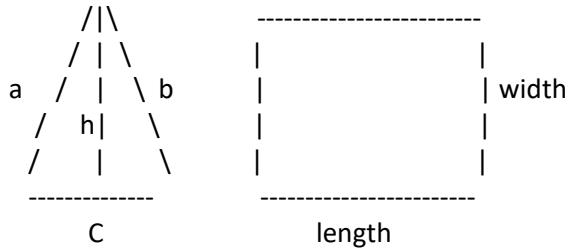


**Computer Science 240**  
**Project No. 6 (floating point arithmetic)**

1. Write an assembly program with the following I/O. MUST USE THE GIVEN DATA

**Sample I/O**



Enter the values of a,b,c, and h for the triangle: 4.3 6.1 9.5 10.7

Enter the length and the width of the rectangle: 15.1 10.6

Triangle

Area.....50.83

Perimeter.....19.9

Rectangle

Area.....160.06

Perimeter .....51.40

2. The two real roots of quadratic equation :  $ax^2 + bx + c = 0$  are

$$X1 = \frac{-b + \sqrt{b^2 - 4ac}}{2a} \quad \text{and} \quad X2 = \frac{-b - \sqrt{b^2 - 4ac}}{2a}$$

Write an assembly program to read the values of a , b, and c and compute both real roots. **MUST TRY THE GIVEN VALUES**

**Sample I/O**

To see the two real roots of  $ax^2 + bx + c = 0$ , enter the a,b, and c values: 2.1 4.5 1.7

X1=-0.49    X2=-1.65