Military Time



**Program Description:** Write a program that reads two times in Military format (900, 1730) and prints the number of hours and minutes between the two times. You must deal with the case that the first time is later than the second time. (Time must always be less than 2400).

**Statements Required:** input, output,decision making

**Sample Output:**

Enter the first time: 900

Enter the second time: 1730

8 hours 30 minutes

Enter the first time: 1730

Enter the second time: 900

15 hours 30 minutes

**QUADRATIC FORMULA (roots) and LINEAR EQUATION (slope and y-intercept)**

**Program Description:** You can find the roots of a quadratic equation in the form:

A\*x^2 + B\*x + C = 0

by using the quadratic formula:

r=(-b +/- sqrt(b^2-4\*a\*c))/2\*a

You can find the slope and y-intercept given two points by using the slope formula:

m=(x2-x1)/(y2-y1)

Write a program that inputs three integers A, B, and C and outputs the roots of an equation using the quadratic formula. Write a program that inputs two points and outputs theslope and y-intercept using the slope formula Your program needs to be concerned with real roots but extra credit will be given for finding imaginary roots. To get an A you must find the points of intersection for both equations

**Required statements:** input, output, decision making

**Sample Copy:**

Enter A, B and C: 1 3 -10

The roots are: -5, 2

Enter X1 and Y1: 1 6

Enter X1 and Y1: 2 7

Slope: 1.00

Y-intercept: 5.00

The points of intersection: -5,0 and 3,8