01:

Write a program that gets word size input from users to make two matrixes of 3 X 4 dimensions. Then, subtract the both matrixes element by element and store the result in the any one of the two matrixes.

O2:

Given x = 1000 and y = 1001 compute the product p = x*y with Booth's Algorithm.

Q3:

The time stamp of a MS-DOS file directory entry uses bits 0 through 4 for the number of 2-second increments, bits 5 through 10 for the minutes, and bits 11 through 15 for the hours (24-hour clock).

For example, the following binary value indicates a time of 03:16:14, in *hh:mm:ss* format:

00011 010000 00111

Write a procedure named **ShowFileTime** that receives a binary file time value in the AX register and displays the time in *hh:mm:ss* format.

Q4:

The RandomRange procedure from the Irvine32 library generates a pseudorandom integer between 0 and *N*-1. Your task is to create an improved version that generates an integer between *M* and *N*-1. Let the caller pass *M* in EBX and *N* in EAX. If we call the procedure *BetterRandomRange*, the following code is a sample test:

mov ebx,-300; lower bound mov eax,100; upper bound call BetterRandomRange

Write a short test program that calls BetterRandomRange from a loop that repeats 50 times. Store each randomly generated number in array. Also Display each randomly generated value.