TASK 01:

# CODE:

include Irvine32.inc

.data

array BYTE 10h, 20h, 30h, 40h

.code

main PROC

mov esi, 0

mov edi, 0

mov esi, OFFSET array + SIZEOF array - 1

mov edi, OFFSET array + SIZEOF array - 1

mov ecx, SIZEOF array/2

l1: mov al, [esi]

mov bl, [edi]

mov [edi], al

mov [esi], bl

inc esi

dec edi

LOOP l1

call DumpRegs

call DumpMem

exit

main ENDP

END main

TASK 02:

# CODE:

INCLUDE IRVINE32.INC

.DATA

SOURCE byte "this is the source string", 0  
target BYTE SIZEOF source DUP('#')  
.code  
main PROC  
    Call Clrscr

    mov esi,0  
    mov edi,SIZEOF source-TYPE source  
    mov ecx,LENGTHOF source  
    L1: mov al, source[edi]  
    mov target[esi]  
    sub edi TYPE source

    loop L1  
    exit  
    main ENDP  
    END main