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**4.10 Programming Exercise**

10.

WriteInt64 PROTO

ExitProcess PROTO

Crlf PROTO

.data

MyArray QWORD 1d,2d,3d,4d,5d,6d

.code

main proc

mov rcx, 6

mov rbx, 0

mov r12, 8

L1:

mov rax, rbx

mul r12

mov r11, rax

mov rax, MyArray[r11]

call WriteInt64

inc rbx

loop L1

call Crlf

mov rcx, 3

mov rbx, 0

L2:

mov rax, rbx

mul r12

mov r11, rax

mov rbp, r11

add rbp, 8

mov r14, MyArray[r11]

mov r15, MyArray[rbp]

mov MyArray[r11], r15

mov MyArray[rbp], r14

add rbx, 2

loop L2

mov rcx, 6

mov rbx, 0

L3:

mov rax, rbx

mul r12

mov r11, rax

mov rax, MyArray[r11]

call WriteInt64

inc rbx

loop L3

call ExitProcess

main endp

end