ExitProcess proto

WriteInt64 PROTO

Crlf PROTO

.data

MyArray QWORD 10d,20d,30d,40d

finalArray QWORD 4 DUP(0)

.code

main proc

mov rcx, LENGTHOF MyArray

mov rsi, 0

mov r15, 8

mov rcx, 4

mov rsi, 0

Loop1:

mov rax, rsi

mul r15

mov rdi, rax

mov rax, myArray[rdi]

call WriteInt64

inc rsi

loop Loop1

call Crlf

mov rcx, 4

mov rsi, 0

Loop2:

mov rax, rsi

mul r15

mov rdx, myArray[rax]

cmp rsi, 3

je HandleLast

mov finalArray[rax + 8], rdx

jmp EndLoop

HandleLast:

mov finalArray[0], rdx

EndLoop:

inc rsi

loop Loop2

mov rcx, LENGTHOF finalArray

mov rsi, 0

Loop3:

mov rax, rsi

mul r15

mov rdi, rax

mov rax, finalArray[rdi]

call WriteInt64

inc rsi

loop Loop3

call ExitProcess

main endp

end