ExitProcess Proto

WriteInt64 PROTO

Crlf PROTO

.data

MyArray QWORD 10,5,9,1,3,4,2,8,12

.code

main proc

mov rcx, LENGTHOF MyArray

mov rsi, 0

LOOP1:

mov rax, MyArray[rsi \* 8]

call WriteInt64

inc rsi

Loop LOOP1

call Crlf

mov rcx, LENGTHOF MyArray

OUTERLOOP:

mov r15, rcx

mov rcx, LENGTHOF MyArray

dec rcx

mov rsi,0

INNERLOOP:

mov r9, MyArray[rsi \* 8]

mov r11, rsi

inc r11

mov r10, MyArray[r11 \* 8]

cmp r9, r10

jle ENDLOOP

SWAP:

mov r13, r9

mov MyArray[rsi \* 8], r10

mov MyArray[r11 \* 8], r13

ENDLOOP:

inc rsi

Loop INNERLOOP

mov rcx, r15

Loop OUTERLOOP

mov rcx, LENGTHOF MyArray

mov rsi, 0

LOOP2:

mov rax, MyArray[rsi \* 8]

call WriteInt64

inc rsi

Loop LOOP2

call ExitProcess

main endp

end