

# Bubble Sort (Lab 2)

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Date

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- model small

- data

n db 5

a db 05, 07, 04, 03, 06

- code

mov ax, @data

mov ds, ax

lea si, a

mov cl, n

dec cl // cl will now contain the value 4  
which is an index to the last element

outloop: mov ch, cl

mov si, 00h

inloop: mov al, a[si]

inc si

cmp al, a[si] // al now contains 05 and  
a[si] contains 07

jnc noexchange  
xchg al, a[si]

mov a[si-1], al

noexchange: dec ch

jnz inloop

dec cl

jnz outloop

mov ah, 4ch

int 21h

end