

LAB-2 → Bubble Sort

04/11/2020

• 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.

jc no exchange

xchg al, a[si]

mov a[si-1], al

noexchange: dec ch

jnz inloop

dec cl

jnz outloop

mov ah, 4ch

int 21h

end.