#Bubble sort

.8086

.model small

.data

s1 db 10 , 12, 8, 2, 0

.code

start:

mov ax, @data

mov ds, ax

mov cl,05h

mov ch,05h

lea si, s1

back1: mov al,[si]

mov ah, [si+1]

cmp al, [si+1]

jnc back2

jc back3

back2: mov [si],ah

mov [si+1],al

back3: dec cl

jz back4

inc si

jmp back1

back4: lea si,s1

dec ch

jz next

mov cl,ch

jmp back1

next : int 3h

end start

OUTPUT

SI=[0000]=00 02 08 0A 0C