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COMPASS

Date :

SECTION :- 3 'D'

⇒ Program to exchange the contents of 2 arrays element by element.

.model small

.DATA

a db 10h, 20h, 30h, 40h, 50h

b db 11h, 22h, 33h, 44h, 55h

.CODE

mov ax, @data

mov ds, ax

~~lea~~ LEA SI, a ; SI will have the starting address of a
LEA DI, b ; DI will have the starting address of b

mov cl, 05h

; loop definition

BACK: mov al, [SI] ; [SI] retrieves the element present in the address of SI

xchg al, [DI] ; exchanges the elements in al and [DI]

mov [SI], al

INC SI ; SI = SI + 1

INC DI ; DI = DI + 1

LOOP BACK ; CX = CX - 1 ; if CX ≠ 0, then jump back to target

; to verify the output

LEA SI, a

LEA DI, b

mov BL, [SI]

mov BH, [DI]

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mov, ah, 4ch
INT 21H
END