

Sumarray

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

• model small
• data

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

b db 11h, 2, 33h, 44h, 55h

• code

mov ax, @data

mov ds, ax

lea si, a ; si will have starting address of a

lea di, b ; di will have starting address of b

mov cl, 05h
; loop definition

back: mov al, [si] ; [si] retrieves the element present the address in SI

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

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mov [si], al

inc si ; $si = si + 1$

inc di

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]

mov ah, 4ch

int 21h

end