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LAB - 2

; 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   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]
        xchg al, [di]
        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
```