

LAB PROG-2 (MP-MC)

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WAP to exchange contents of an array.

• MODEL SMALL

• DATA

LIST 1 DB 09H, 08H, 07H, 06H, 05H, 04H, 03H, 02H, 01H

LIST 2 DB 01H, 02H, 03H, 04H, 05H, 06H, 07H, 08H, 09H

• CODE

MOV AX, @DATA

MOV DS, AX

MOV SI, OFFSET LIST1 ; starting address of LIST 1 moved to SI reg

MOV DI, OFFSET LIST2 ; starting address of LIST 2 moved to DI reg

MOV CL, 09H ; no. of array elements

BACK : MOV AL, [SI] ; content/value present at the address of SI reg moved to AL reg

~~MOV~~

XCHG AL, [DI] ; contents of AL reg and DI reg exchanged

MOV [SI], AL

INC SI

INC DI

LOOP BACK.

; for verifying the output

MOV SI, OFFSET LIST1

MOV DI, OFFSET LIST2

MOV BL, [SI] ; First numb/element of LIST 1 moved to BL reg

MOV BH, [DI] ; First numb/element of LIST 2 moved to BH reg

MOV AH, 04CH

INT 21H

END