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LAB1 -

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.MODEL SMALL

DISPLAY MACRO MESSAGE MSG

LEA DX, MSG

MOV AH, 09H

INT 21H

ENDM

.DATA

LIST DB 01H, 05H, 07H, 10H, 12H, 14H

NUMBER EQU (\$-LIST)

KEY DB 01H

MSG1 DB 0DH, 04H, "ELEMENT FOUND IN THE LIST .... \$"

MSG2 DB 0DH, 0AH, "SEARCH FAILED !! ELEMENT NOT FOUND IN THE  
LIST \$"

.CODE

START : MOV AX, @DATA

MOV DS, AX

MOV CH, NUMBER-1

MOV CL, 00H

AGAIN: MOV SI, OFFSET LIST

XOR AX, AX

CMP CL, CH

JF NEXT

JNC FAILED

NEXT: MOV AL, CL

ADD AL, CH

SHR AL, 01H

MOV BL, AL

XOR AH, AH

MOV BP, AX

MOV AL, DS: [BP][SI]

CMP AL, KEY

JF SUCCESS

JC INFLOW

MOV CH, BL

DEC CH

JMP AGAIN

INFLOW: MOV CL, BL

INC CL

JMP AGAIN

SUCCESS: DISPLAY MSG1

JMP FINAL

FAILED: DISPLAY MSG2

FINAL: MOV AH, 4CH

INT 21H

END START