

• model small

Display Macro ~~MSG~~

LEA DX, MSG

MOV AH, 09H

INT 21H

END M

• DATA

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

NUMBER EQU ( \$ - LIST )

KEY DB 021H

MSG1 DB 0DH, 0AH, "ELEMENT FOUND IN THE LIST..."

MSG2 DB 0DH, 0AH, "ELEMENT NOT FOUND IN 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

JE 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][ESI]

CMP AL, KEY

JE SUCCESS

JC INLOW

MOV CH, BL

JMP AGAIN

INLOW: MOV CL, BL

INC CL

JMP AGAIN

SUCCESS: DISPLAY MSG1  
JMP FINAL

FAILED: MOV AH, 4CH  
INT 21H

END START