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EAB program 1

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- MODEL SMALL
DISPLAY MACRO MSG

LEA DX, MSG

MOV AH, 09H

INT 21H

ENDM

- DATA

LIST DB 01H, 05H, 07H, 10H, 12H, 14H, 20H
NUMBER EQU (\$ - LIST)

KEY DB 10H

MSG1 DB 0DH, 0AH, "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
JE NEXT
JNC FAILED

NEXT : MOV AL, CL
ADD AL, CH

```
XOR AH, AH
MOV BP, AX
MOV AL, DS:[BP](SI)
CMP AL, KEY
JE SUCCESS
JC INCLOW
MOV CH, BL
INCLOW: MOV CL, BL
DEC CH
JMP AGAIN
```

```
INCLOW: MOV CL, BL
INC CL
JMP AGAIN
```

```
SUCCESS: DISPLAY MSG1
```

```
FAILED : JMP FINAL
          DISPLAY MSG2
```

```
FINALIZED : MOV AH, 4CH
              INT 21H
```

```
END START
```