

```
model small  
; Name to display the message  
DISPLAY MACRO MSG  
LEA DX, MSG  
MOV AH, 09H  
INT 21H  
ENDM
```

```
DATA  
LIST DB 01H, 05H, 07H, 10H, 12H, 14H -  
NUMBER EQU ($-LIST)  
KEY DB 012H
```

```
MSG1 DB 00H, 0AH "Element found $"  
MSG2 DB 00H, 0AH "Element not found $"
```

```
CODE
```

```
START: MOV AX, @DATA  
MOV DS, AX  
MOV CX, NUMBER-1
```

```
AGAIN: MOV CL, 00H  
XOR AX, AX  
CMP CL, CH  
JE NEXT  
JNC FAILED
```

```

NEXT: MOV AL, CL
      ADD AL, 0x0A
      SHL AL, 0x01
      MOV BL, AL
      XOR AH, 0x00
      MOV BP, 0x00
      MOV AL, DS: [BP]
      CMP AL, 0x0A
      JE SUCCESS
      JC INLOW
      MOV CH, BL
      JMP AGAIN
INLOW: MOV CL, BL
      INC CL
      JMP AGAIN
SUCCESS: DISPLAY MSG1
      JMP FINAL
FAILED: DISPLAY MSG2
FINAL: MOV AM, 0x00
      INT 0x10
      END START

```