

```
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  
MOV CL, 00H  
AGAIN: MOV SI, OFFSET LIST  
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 INCLW
      MOV CH, BL
      JMP AGAIN
INCLW: MOV CL, BL
      INC CL
      JMP AGAIN
SUCCESS: DISPLAY MSG1
      JMP FINAL
FAILED: DISPLAY MSG2
FINAL: MOV AX, 0x00
      INT 0x10
      END START

```



DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Pr

51458 + 465086 Bytes symbol space free

0 Warning Errors

0 Severe Errors

C:\MASM>link binaryse;;

Microsoft (R) Overlay Linker Version 3.60

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LINK : warning L4021: no stack segment

C:\MASM>binaryse;;

Illegal command: binaryse;;.

C:\MASM>binar@yse@;;

Illegal command: binar@yse@;;.

C:\MASM>binaryse;;

Illegal command: binaryse;;.

C:\MASM>binaryse

ELEMENT FOUND IM THE LIST.....