

MP & MC

Model Small

Display Macro MSG

LEA DX, MSG

MOV AH, 09H

INT 21h

ENDM

.data

list db 01H, 06H, 12H, 14H, 20H

Num Equ (\$ - list)

key db 012H

msg1 db 0DH, 0AH, "Element found"

msg2 db 0DH, 0AH, "Search failed"

.code

start: MOV AX, @data

MOV DS, AX

MOV CH, Number-1

MOV CL, 00H

Again: LEA SI, 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][SI]

CMP AL, key

JE Success

JC Inflow

MOV CH, BL

DEC CH

JMP again

Inclaw : MOV CL, BL

INC CL

JMP again

Success : Display MSG1

JMP Final

Failed : Display MSG2

Final : MOV AH, 4CH

INT 21H

END START