

File Edit Search View Options Help

C:\MASM\BINSEA.ASM

```
.model small
display macro msg
    lea dx, msg
    mov ah, 09h
    int 21h
endm

.data
list db 01h,05h,07h,10h,12h,14h
number equ($-list)
key db 012h
msg1 db 0dh,0ah, "element found in the list...$"
msg2 db 0dh,0ah, "search failed!! element not found in the list $"

.code
start : mov ax, 0data
        mov ds, ax

        mov ch, number-1 ;high value....
        mov cl, 00h      ;low value...
again:  mov si, offset list
        xor ax, ax
```

File Edit Search View Options Help

C:\MASM\BINSEA.ASM

mov ds, ax

mov ch, number-1 ;high value....

mov cl, 00h ;low value...

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][si]

cmp al, key

je sucess

jc inclow

mov ch, bl

dec ch

jmp again



File Edit Search View Options Help

C:\MASM\BINSEA.ASM

```
-      xor ah, ah
      mov bp, ax
      mov al, ds:[bp][si]
      cmp al, key
      je sucess
      jc inclow
      mov ch, bl
      dec ch
      jmp again
inclow: mov cl,bl
      inc cl
      jmp again
sucess: display msg1
      jmp final
failed: display msg2
final:  mov ah,4ch
      int 21h
end start
```



DOSBox 0.74-3, Cpu speed: max 100% cycles, Frameskip 0, Program:

CV



File Edit View Search Run Watch Options Calls

Help

local

source1 CS:IP (ACTIVE)

Address	Hex	Assembly	Comment
052A:0000	B82E05	MOV	AX,052E
052A:0003	8ED8	MOV	DS,AX
052A:0005	B505	MOV	CH,05
052A:0007	B100	MOV	CL,00
052A:0009	BE0E00	MOV	SI,000E
052A:000C	33C0	XOR	AX,AX
052A:000E	3ACD	CMP	CL,CH
052A:0010	7402	JZ	0014
052A:0012	732E	JNB	0042
052A:0014	8AC1	MOV	AL,CL

command

CU1053 Warning: TOOLS.INI not found  
CU0101 Warning: No symbolic information for C:\MASM\binsea.EXE  
>

reg

Register	Value
AX	0000
BX	0000
CX	0000
DX	0000
SP	0000
BP	0000
SI	0000
DI	0000
DS	051A
ES	051A
SS	0529
CS	052A
IP	0000
FL	0200

NU UP EI PI  
NZ NA PO NO

&lt;F8=Trace&gt; &lt;F10=Step&gt; &lt;F5=Go&gt; &lt;F6=Window&gt; &lt;F3=Display&gt;