<u>LINEARSEARCH</u>

Print macro msg

Lea dx,msg

Mov ah,09h

Int 21h

Endm

Data segment

Array dw 1111h,2223h,3344h,4455h

Len equ ($-array)

Key dw 2222h

Msg1 db 'key found $'

Msg2 db 'key not found $'

Data ends

Code segment

Assume cs:code,ds:data

Start:

   Mov ax,data

   Mov ds,ax

   Lea si,array

   Mov cx,len

   Mov bx,key

Next:

   Mov ax,[si]

```asm
Cmp ax,bx
Je found
Inc si
Dec cx
Jnz next
Jne nf

Nf: print msg2
Jmp exit
Found:
Print msg1
Exit:
Mov ah,4ch
Int 21h
Code ends
End start
```

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