

汇编第三章第二次作业

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3.21

代码：

```
data segment
    number db 78h
    addrs dw offset fun0,offset fun1,offset fun2,offset fun3
           dw offset fun4,offset fun5,offset fun6,offset fun7
data ends
```

```
code segment
    assume ds:data,cs:code
```

start:

```
    mov ax,data
        mov ds,ax
    mov al,number
    mov dl,'#'
    cmp al,0
    jz disp
    mov cx,0

    mov bx,0;记录为 1 的下标
    jmp again
```

again:

```
    cmp cx,7
    jz endcode

    mov bx,cx
    shr al,1
    jc next

    inc bx;下标自增
    mov cx,bx

    jmp again
```

next:

mov cx,bx

inc cx

shl bx,1

jmp addr[bx]

fun0:

mov dl,'0'

jmp disp

fun1:

mov dl,'1'

jmp disp

fun2:

mov dl,'2'

jmp disp

fun3:

mov dl,'3'

jmp disp

fun4:

mov dl,'4'

jmp disp

fun5:

mov dl,'5'

jmp disp

fun6:

mov dl,'6'

jmp disp

fun7:

mov dl,'7'

jmp disp

;

disp:

mov dh,al

mov ah,02h

int 21h

mov ah,04h

mov al,dh

jmp again

endcode:

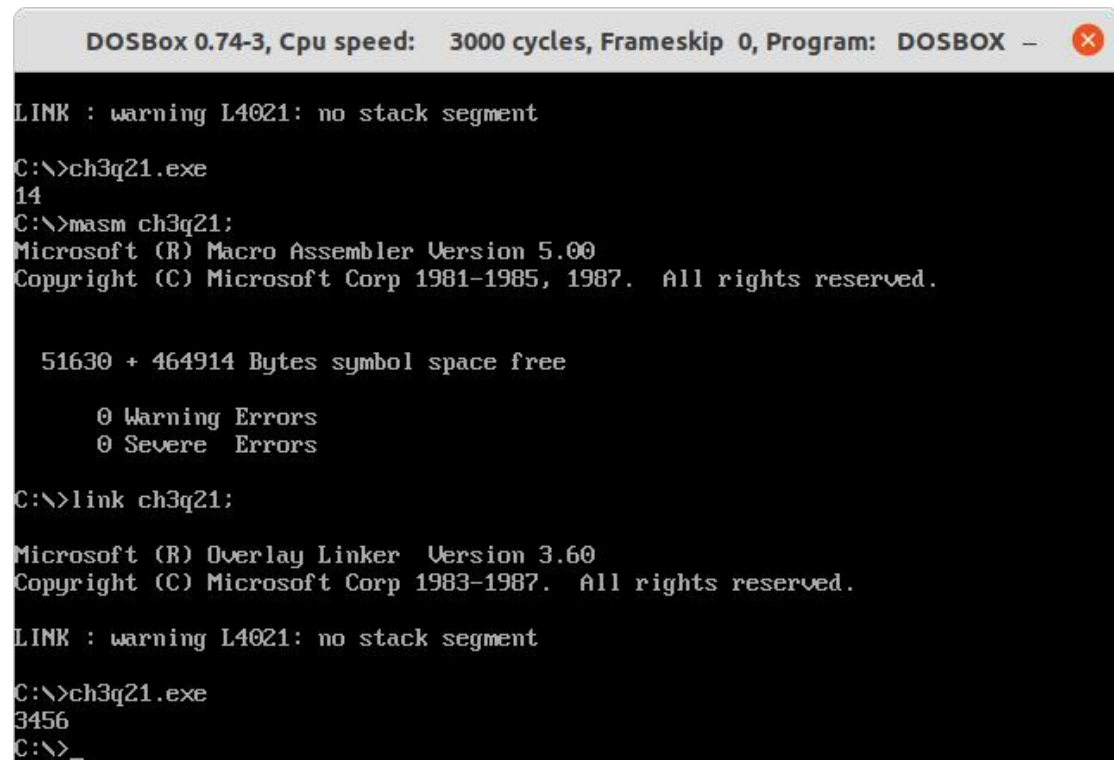
mov ah,4ch

int 21h

code ends

end start

运行结果：



DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX

```
LINK : warning L4021: no stack segment

C:\>ch3q21.exe
14
C:\>masm ch3q21:
Microsoft (R) Macro Assembler Version 5.00
Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51630 + 464914 Bytes symbol space free

0 Warning Errors
0 Severe Errors

C:\>link ch3q21:
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

LINK : warning L4021: no stack segment

C:\>ch3q21.exe
3456
C:\>_
```

3.23

代码：

data segment

data ends

code segment

assume ds:data,cs:code

start:

```
mov ax,data
mov ds,ax
mov al,20h
mov dl,0h
```

```

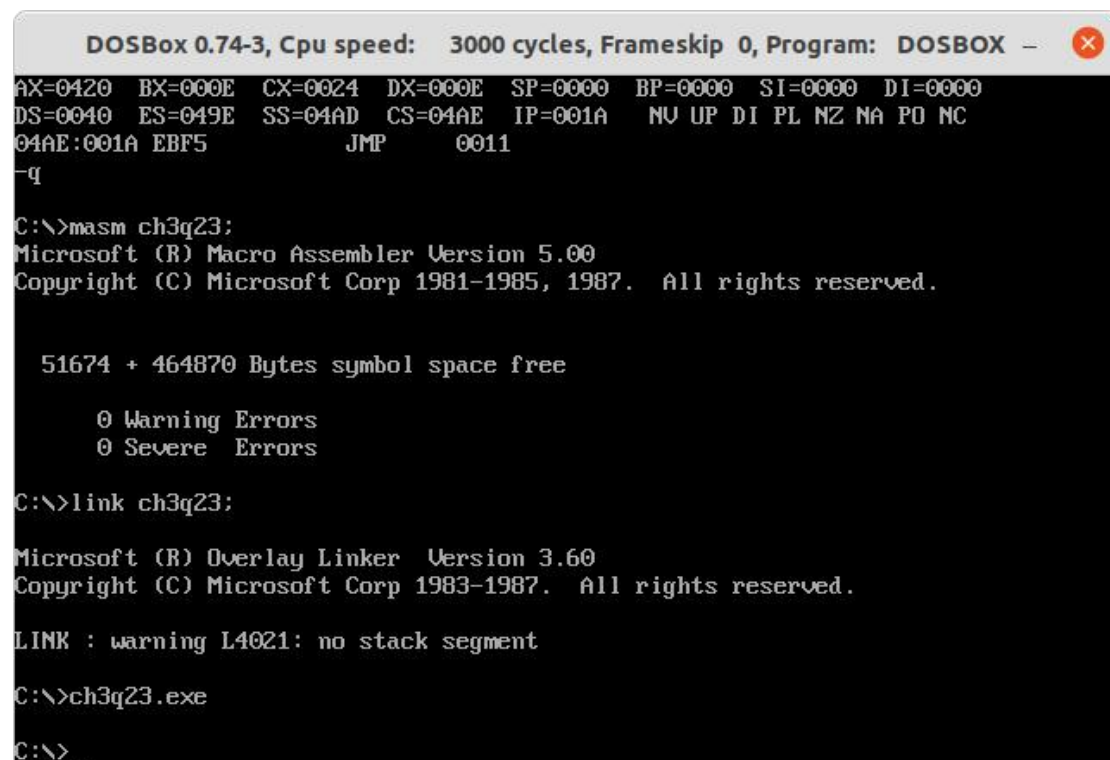
        mov bx,0040h
        mov ds,bx
        mov bx,0h
search:
        cmp al,[bx]
        jz counter

counter:
        inc dl
        inc bx
        jo encode
        jmp search

encode:
        ;mov dl,dl
        mov ah,2
        int 21h
        mov ah,4ch
        int 21h

code ends
end start

```



The screenshot shows a DOSBox window titled "DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX". The window contains a command prompt where the user has entered the following commands:

```

C:\>masm ch3q23;
Microsoft (R) Macro Assembler Version 5.00
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51674 + 464870 Bytes symbol space free

0 Warning Errors
0 Severe Errors

C:\>link ch3q23;
Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

LINK : warning L4021: no stack segment

C:\>ch3q23.exe
C:\>_

```

代码：

```
data segment
    array dw 54321
    dbcd db 5 dup(?)
data ends
code segment
assume cs:code,ds:data;
start:
    mov ax,data
    mov ds,ax
    mov dx,array

    mov bx,10000;除数

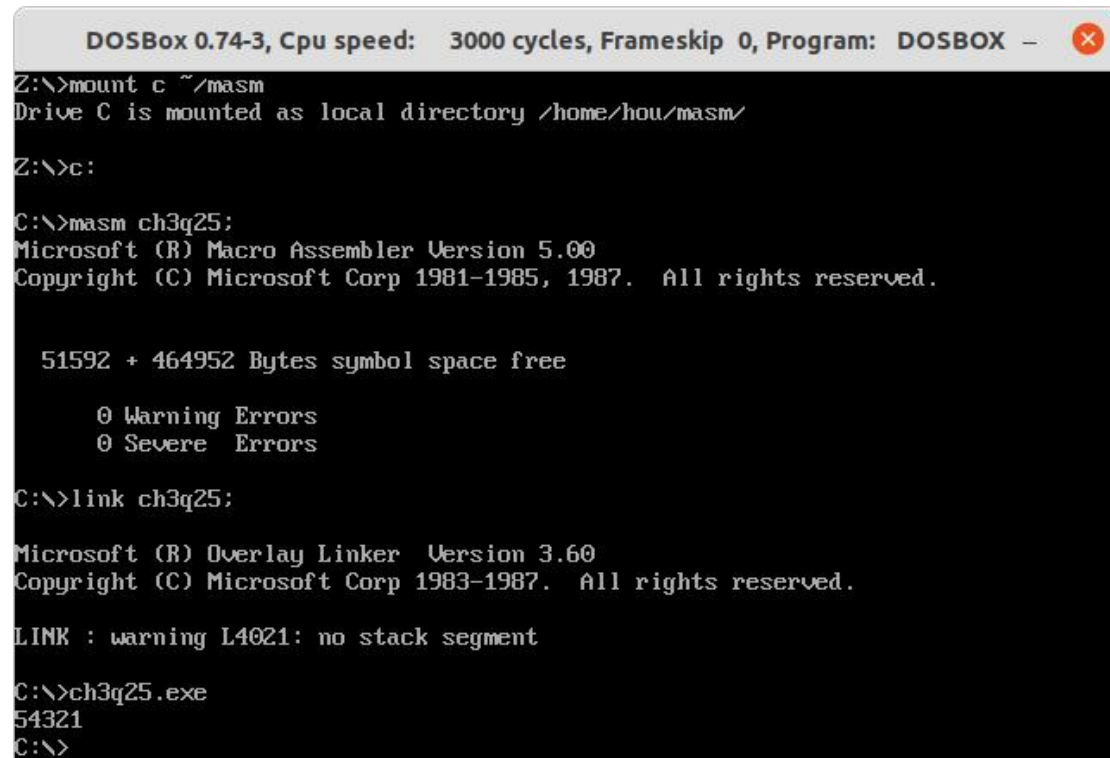
    mov cx,10;除数的除数

    mov si,5;取余次数
again:
    mov ax,dx
    mov dx,0
    div bx
    mov dbcd[si],al
    push dx
    mov ax,bx
    mov dx,0
    div cx
    mov bx,ax
    pop dx
    dec si
    jnz again
    call disp
    mov ah,4ch
    int 21h

disp proc;输出结果
    push si
    mov si,5
play:
    mov dl,dbcd[si]
    add dl,30h
    mov ah,02h
    int 21h
```

```
    dec si
    jnz play
    pop si
    ret

disp endp
code ends
end start
```

A screenshot of a DOSBox window titled "DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX". The window shows a command prompt with the following text:

```
Z:\>mount c ~/masm
Drive C is mounted as local directory /home/hou/masm/

Z:\>c:

C:\>masm ch3q25:
Microsoft (R) Macro Assembler Version 5.00
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51592 + 464952 Bytes symbol space free

0 Warning Errors
0 Severe Errors

C:\>link ch3q25:

Microsoft (R) Overlay Linker Version 3.60
Copyright (C) Microsoft Corp 1983-1987. All rights reserved.

LINK : warning L4021: no stack segment

C:\>ch3q25.exe
54321
C:\>
```

3.26

(1) 过程方法”中指出：系统地识别和管理组织所应用的过程，特别是这些过程之间的相互作用，称为“过程方法”。为使组织有效运行，组织应当采用过程方法识别和管理众多相互关联和相互作用的过程，对过程和过程之间的联系、组合和相互作用进行连续的控制和持续的改进，以增强顾客满意和过程的增值效应。

(2) Push 和 pop 指令分别是保存现场和恢复现场操作，为中断必要步骤。

(3) 最后一行改为 crazy ENDP；