汇编语言程序设计课程作业(七)

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问题 7.9

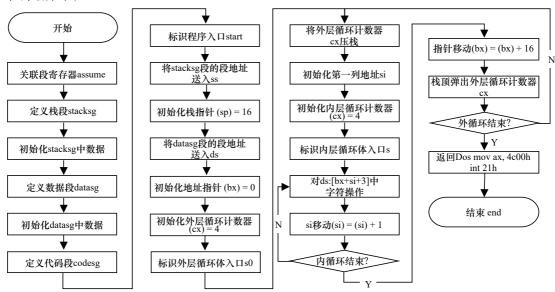
```
编程,将 datasg 段中每个单词的前 4 个字母改为大写字母。
assume cs:codesg,ss:stacksg,ds:datasg

stacksg segment
    dw 0,0,0,0,0,0,0
stacksg ends

datasg segment
    db '1. display '
    db '2. brows '
    db '3. replace '
    db '4. modify '
datasg ends

codesg segment
    start:
codesg ends
end start
```

(1) 程序流程图:



(2) 补全代码:

```
start: mov ax, stacksg
mov ss, ax
mov sp, 16

mov ax, datasg
mov ds, ax
mov bx, 0

mov cx, 4
```

```
s0: push cx
mov si,0
mov cx,4

s: mov al,[bx+si+3]
and al,11011111b
mov [bx+si+3],al
inc si
loop s

add bx,16
pop cx
loop s0

mov ax,4c00h
int 21h
```

(3) 编译、连接:

```
DOSBox 0.74-3-1, Cpu speed: 3000 cycles, Frameskip 0, Program: DOSBOX

Z:\>SET BLASTER=A220 17 D1 H5 T6

Z:\>mount c ~/MYDOSBox
Drive C is mounted as local directory /Users/tommy/MYDOSBox/

Z:\>c:

C:\>masm t1;
Microsoft (R) Macro Assembler Version 5.00

Copyright (C) Microsoft Corp 1981-1985, 1987. All rights reserved.

51614 + 464930 Bytes symbol space free

0 Warning Errors
0 Severe Errors

C:\>link t1;

Microsoft (R) Segmented-Executable Linker Version 5.13

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LINK: warning L4021: no stack segment

C:\>t
```

(4) 跟踪、调试:

(运行前)

(运行后)