

# 计组13

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## 第一题

程序代码

```
XXX1:  0100
        MOV DX, 200
        MOV AH, A
        INT 21
        MOV SI, 201
        MOV CL, [SI]
        MOV AX, 0
XXX11:  010F
        INC SI
        MOV DX, A
        MUL DX
        MOV DX, 0
        MOV DL, [SI]
        SUB DL, 30
        ADD AX, DX
        LOOP XXX1
        RET
XXX2:  0122
        MOV SI, 220
        MOV DI, 240
        MOV DX, 24
        MOV [DI], DX
        MOV DX, 0
        MOV WORD PTR AX, [SI]
        MOV CX, A
XXX22:  0135
        DEC DI
        DIV CX
        ADD DL, 30
        MOV [DI], DL
        MOV DX, 0
        CMP AX, 0
        JNZ XXX22

        MOV DX, DI
        MOV AH, 9
        INT 21
        RET
014C
        MOV SI, 200
        MOV DX, A
        MOV [SI], DX
        CALL XXX1
        PUSH AX
        CALL XXX1
        POP DX
```

```

ADD AX, DX
MOV DI, 220
MOV [DI], AX

CALL XXX2
INT 3

```

运行结果

运行结果:

```

DOSBox 0.74-3, Cpu speed: 3000 cycles, Frameskip 0, Program: DEBUG
073F:0140 CMP AX, 0
073F:0143 JNZ 0135
073F:0145 MOV DX, DI
073F:0147 MOV AH, 9
073F:0149 INT 21
073F:014B RET
073F:014C MOV SI, 200
073F:014F MOV DX, A
073F:0152 MOV [SI], DX
073F:0154 CALL 0100
073F:0157 PUSH AX
073F:0158 CALL 0100
073F:015B POP DX
073F:015C ADD AX, DX
073F:015E MOV DI, 220
073F:0161 MOV [DI], AX
073F:0163 CALL 0122
073F:0166 INT 3
073F:0167
-G=014C
13579
AX=0900 BX=0000 CX=000A DX=023B SP=00FD BP=0000 SI=0220 DI=023B
DS=073F ES=073F SS=073F CS=073F IP=0166 NU UP EI PL ZR NA PE NC
073F:0166 CC INT 3

```

## 第二题

### 程序代码

```

input1:
    mov dx,200
    mov ah,a
    int 21
    int 3
input2:
    mov dx,210
    mov ah,a
    int 21
    int 3

bcdadd:
    mov si,20B
    mov di,21B
    mov ax,0
    mov dx,0
    mov cx,10
    # CF清零
    add ax,0

```

```
xxx:
    mov al,[si]
    mov dl,[di]
    adc al,dl
    aaa
    mov [di],al
    dec si
    dec di
    loop xxx
    int 3
```

```
bcdToasc:
    mov si,21B
    mov ax,0
    mov dx,0
    mov cx,10
    add ax,0
xxx:
    mov al,[si]
    add al,30
    dec si
    loop xxx
# 添加结束字符
    mov al,24
    mov [21C],al
    int 3
```

```
output:
    mov dx,212
    mov ah,9
    int 21
    int 3
```

```
call input1
call input2
call bcdadd
call bcdToasc
call output
```