

# 汇编代码模板

## 1.基本模板

```
dataseg segment
    data dw 3,5,7,14,2,6
dataseg ends

codeseg segment
    assume cs:codeseg, ds:dataseg, es: dataseg
main proc far
start:
    push ds
    sub ax,ax
    push ax
    mov ax,dataseg
    mov ds,ax
    mov es,ax
;main begin

;-----
;回车换行
crlf proc near
    mov dl,0dh
    mov ah,02h
    int 21h
    mov dl,0ah
    mov ah,02h
    int 21h
ret
crlf endp
;-----
exit:
    ret
main endp
codeseg ends
end start
```

## 2.把bx中的2进制数以16进制的形式显示在屏幕上

```
;-----
trans proc near
    mov ch,4

rotate:
    mov cl,4
    rol bx,cl
    mov al,bl
    and al,0fh
    add al,30h
    cmp al,3ah
    jl print
```

```

        add al,7h;'A-Z'

print:
        mov dl,al
        mov ah,02h
        int 21h
        dec ch
        jnz rotate
ret
trans endp
;-----

```

### 3.把bx中的数2进制转10进制输出

```

;-----
binidec proc near
        mov cx,10000d
        call dec_div
        mov cx,1000d
        call dec_div
        mov cx,100d
        call dec_div
        mov cx,10d
        call dec_div
        mov cx,1d
        call dec_div
        ret
binidec endp
;-----
dec_div proc near
        mov ax,bx
        mov dx,0
        div cx
        mov bx,dx
        mov dl,al
        add dl,30h
        mov ah,2
        int 21h
        ret
dec_div endp
;-----

```

### 4.从键盘接收10进制数并转成2进制存入bx

```

;-----
tentotwo proc near
        mov bx,0
newchar:
        mov ah,1
        int 21h
        sub al,30h
        jl exit;小于0退出
        cmp al,9
        jg exit;大于9退出
        cbw

```

```

        xchg ax,bx
        mov cx,10
        mul cx
        xchg ax,bx
        add bx,ax

        jmp newchar

exit:
        ret
tentotwo endp
;-----

```

## 5.从键盘接收16进制数转成2进制并存入bx

```

;-----
HtoB proc near
        mov bx,0
newchar:
        mov ah,1
        int 21h
        sub al,30h
        jl exit;小于0退出
        cmp al,10
        jl add_to;处于0-9, 可直接计算
        sub al,27h;'a-f'
        cmp al,0ah
        jl exit;小于a退出
        cmp al,10h
        jge exit;大于f退出
add_to:
        mov cl,4
        shl bx,cl
        mov ah,0
        add bx,ax
        jmp newchar
exit:
        ret
HtoB endp
;-----

```

## 6.将正数n插入一个已正序的正整数字组

```

dataseg segment
        x dw ?
        array_head dw 3,5,15,23,37,49,52,65,78,99
        array_end dw 105
        n dw 32
dataseg ends
;

;-----

        mov ax,n
        mov x,-1
        mov si,0

```

```

compare:
    cmp array_end[si],ax
    jle insert
    mov bx,array_end[si]
    mov array_end[si+2],bx
    sub si,2
    jmp compare
insert:
    mov array_end[si+2],ax
;-----

```

## 7.冒泡排序，从大到小

```

dataseg segment
    a dw 100,30,78,99,15,12,66,45,189,256
dataseg ends

;-----
    mov cx,10;数组中有10个数
    dec cx;外循环9次，完成每次外循环后把最小的数沉底，放到最后
loop1:
    mov di,cx;外循环次数暂存到di里
    mov bx,0
loop2:
    mov ax,a[bx]
    cmp ax,a[bx+2]
    jge continue;如果前面的数大，不交换
    xchg ax,a[bx+2]
    mov a[bx],ax
continue:
    add bx,2
    loop loop2
    mov cx,di;内循环次数等于cx，内循环用完cx后，恢复外循环的cx
    loop loop1
;-----

```

## 8.每隔1秒响铃一次（中断）

```

    .model small
    .stack
    .data
count dw 1
msg db 'The bell is ringing! ',13,10,'$'
;
    .code
main proc far
start:
    mov ax,@data
    mov ds,ax

;main begin
    ;取原中断向量
    mov al,1ch
    mov ah,35h
    int 21h
    ;保存原中断向量

```

```

    push es
    push bx
    push ds
    ;设置新的中断向量

    mov dx,offset ring
    mov ax,seg ring
    mov ds,ax
    mov al,1ch
    mov ah,25h
    int 21h

    pop ds
    ;打开定时器
    in al,21h
    and al,11111110b
    out 21h,al
    ;设置IF=1
    sti
    ;等待
    mov di,20000
delay:
    mov si,30000
delay1:
    dec si
    jnz delay1
    dec di
    jnz delay

    ;恢复原中断向量
    pop dx
    pop ds
    mov al,1ch
    mov ah,25h
    int 21h

    mov ax,4c00h
    int 21h
main endp
;-----
ring proc near
    push ds
    push ax
    push cx
    push dx

    mov ax,@data
    mov ds,ax
    sti;开中断

    dec count
    jnz exit
    ;输出信息
    mov dx,offset msg
    mov ah,09h
    int 21h

    mov dx,100

```

```

        in al,61h;获取端口开关
        and al,0fch
sound:
        xor al,02
        out 61h,al

        mov cx,1400h
wait1:
        loop wait1
        dec dx
        jne sound
        mov count,18;每隔1s

exit:
        cli;关中断
        pop dx
        pop cx
        pop ax
        pop ds
        iret
ring endp
;-----
        end start

```

## 9.输出目标字符串中所有待查字符串位置

```

dataseg segment
    mess1 db 'Enter keyword:', '$'
    mess2 db 'Enter Sentence:', '$'
    mess3 db 'Match at location:', '$'
    mess4 db 'H of the sentence.', '$'
    mess5 db 'No match.', '$'
    offsetnum dw 0
    num dw 0
;
keyin label byte
    maxk db 10
    actk db ?
    key db 10 dup(?)
;
senin label byte
    maxs db 50
    acts db ?
    sen db 50 dup(?)
;

dataseg ends

codeseg segment
    assume cs:codeseg, ds:dataseg, es: dataseg
main proc far
start:
    push ds
    sub ax,ax
    push ax
    mov ax,dataseg
    mov ds,ax

```

```

    mov es,ax
;main begin
    lea dx,mess1;输出Enter keyword:
    mov ah,09h
    int 21h
    lea dx,keyin;读入关键字
    mov ah,0ah
    int 21h
    call crlf
;
a00:
    lea dx,mess2;输出Enter Sentence:
    mov ah,09h
    int 21h
    lea dx,senin;读入句子
    mov ah,0ah
    int 21h
    call crlf
;

;若输入句子是ctrl+C则退出
    mov di,0
    mov al,sen[di]
    cmp al,3;一定要和低字节，否则加上高字节就不是3了
    jz exit
;

    mov cl,acts
    mov ch,0
    sub cl,actk
    inc cx;cx里是外总比较次数
find:
    lea si,key
    lea di,sen
    add di,offsetnum
    push cx
    mov cl,actk;内比较次数
    mov ch,0
    cld
    repe cmpsb
    jnz next;暂时不匹配
match:
    lea bx,sen
    sub di,bx
    mov al,actk
    mov ah,0
    sub di,ax
    mov bx,di
    call trans
    lea dx,mess4
    mov ah,09h
    int 21h
    inc num
    call crlf
next:
    pop cx
    inc offsetnum
    loop find

```

```

        cmp num,0
        jnz exit
nomatch:
        lea dx,mess5
        mov ah,09
        int 21h
        jmp exit

;-----
trans proc near
        mov ch,4

rotate:
        mov cl,4
        rol bx,cl
        mov al,bl
        and al,0fh
        add al,30h
        cmp al,3ah
        jl print
        add al,7h;'A-Z'

print:
        mov dl,al
        mov ah,02h
        int 21h
        dec ch
        jnz rotate
ret
trans endp
;-----
;-----
;回车换行
crlf proc near
        mov dl,0dh
        mov ah,02h
        int 21h
        mov dl,0ah
        mov ah,02h
        int 21h
ret
crlf endp
;-----
exit:
        ret
main endp
codeseg ends
        end start

```

## 10.比较两个字符串是否相等

```

dataseg segment
        string1 db 'aaa','$'
        string2 db 'aaa','$'
        flag dw ?
dataseg ends

```



```

codeseg segment
    assume cs:codeseg, ds:dataseg, es: dataseg
main proc far
start:
    push ds
    sub ax,ax
    push ax
    mov ax,dataseg
    mov ds,ax
    mov es,ax
;main begin
    lea si,string1
    lea di,string2
    mov cx,3
    repe cmpsb;用于比较两个字符串是否相等
    je xiangdeng
    mov flag,0
    jmp show
xiangdeng:
    mov flag,1
show:
    mov bx,flag
    call trans
    jmp exit
;-----
trans proc near
    mov ch,4

rotate:
    mov cl,4
    rol bx,cl
    mov al,bl
    and al,0fh
    add al,30h
    cmp al,3ah
    jl print
    add al,7h;'A-Z'

print:
    mov dl,al
    mov ah,02h
    int 21h
    dec ch
    jnz rotate
ret
trans endp
;-----
exit:
    ret
main endp
codeseg ends
end start

```

## 11.查找目标字符串中有多少个待查字符串

```
dataseg segment
    mess1 db 'Enter keyword:', '$'
    mess2 db 'Enter Sentence:', '$'
    mess3 db 'Match at location:', '$'
    mess4 db 'H of the sentence.', '$'
    mess5 db 'No match.', '$'
    num dw 0
    offsetnum dw 0
;
keyin label byte
    maxk db 10
    actk db ?
    key db 10 dup(?)
;
senin label byte
    maxs db 50
    acts db ?
    sen db 50 dup(?)
;

dataseg ends

codeseg segment
    assume cs:codeseg, ds:dataseg, es: dataseg
main proc far
start:
    push ds
    sub ax, ax
    push ax
    mov ax, dataseg
    mov ds, ax
    mov es, ax
;main begin
    lea dx, mess1; 输出Enter keyword:
    mov ah, 09h
    int 21h
    lea dx, keyin; 读入关键字
    mov ah, 0ah
    int 21h
    call crlf
;
a00:
    lea dx, mess2; 输出Enter Sentence:
    mov ah, 09h
    int 21h
    lea dx, senin; 读入句子
    mov ah, 0ah
    int 21h
    call crlf
;

;若输入句子是ctrl+C则退出
    mov di, 0
    mov al, sen[di]
    cmp al, 3; 一定要和低字节, 否则加上高字节就不是3了
```

```

        jz exit
;

        mov cl,acts
        mov ch,0
        sub cl,actk
        inc cx;cx里是外总比较次数
find:
        lea si,key
        lea di,sen
        add di,offsetnum
        push cx
        mov cl,actk;内比较次数
        mov ch,0
        cld
        repe cmpsb
        jnz next;暂时不匹配
        ;匹配
        inc num
next:
        pop cx
        inc offsetnum
        loop find

        cmp num,0
        jnz a0
nomatch:
        lea dx,mess5
        mov ah,09
        int 21h
        jmp exit
a0:
        mov bx,num
        call trans

        jmp exit

;-----
trans proc near
        mov ch,4

rotate:
        mov cl,4
        rol bx,cl
        mov al,bl
        and al,0fh
        add al,30h
        cmp al,3ah
        jl print
        add al,7h;'A-Z'

print:
        mov dl,al
        mov ah,02h
        int 21h
        dec ch
        jnz rotate
ret

```

```

trans endp
;-----
;-----
;回车换行
crlf proc near
    mov dl,0dh
    mov ah,02h
    int 21h
    mov dl,0ah
    mov ah,02h
    int 21h
ret
crlf endp
;-----
exit:
    ret
main endp
codeseg ends
end start

```

## 12.成绩输入并按从高到低排序

;接收不限次数的成绩输入，成绩格式为两位10进制数。不输入即回车时表示输入结束，此时将已输入的所有成绩按降序序列输出，且换行后

;以16进制形式输出已输入的成绩的个数

```

dataseg segment
    score dw 50 dup(?)
    num dw 0
    mess1 db 'input score:','$'
    flag dw 1
dataseg ends

codeseg segment
    assume cs:codeseg, ds:dataseg, es: dataseg
main proc far
start:
    push ds
    sub ax,ax
    push ax
    mov ax,dataseg
    mov ds,ax
    mov es,ax
;main begin
a0:
    lea dx,mess1
    mov ah,09h
    int 21h
    call input_score
    call crlf
    cmp flag,0
    jz next
    mov di,num
    add di,di
    mov score[di],bx
    inc num
    jmp a0
;输入完毕

```

```

next:
    mov di,num
    add di,di
    mov score[di],bx
    inc num;加上最后一个
    call maxtomin;降序排列
    mov cx,num
    mov si,0
show:
    mov bx,score[si]
    push cx
    call binidec
    call crlf
    pop cx
    add si,2
    loop show
;输出num
    call crlf
    mov bx,num
    call trans
;    call crlf
;    mov si,0
;    mov bx,score[si]
;    call binidec
    jmp exit
;-----
input_score proc near
    mov bx,0
newchar:
    mov ah,1
    int 21h
    cmp al,0dh
    jz endinput
    sub al,30h
    jl exit1;小于0退出
    cmp al,9
    jg exit1;大于9退出
    cbw

    xchg ax,bx
    mov cx,10
    mul cx
    xchg ax,bx
    add bx,ax

    jmp newchar
endinput:
    mov flag,0
exit1:
    ret
input_score endp
;-----
crlf proc near
    mov dl,0dh
    mov ah,02h
    int 21h
    mov dl,0ah
    mov ah,02h

```

```

        int 21h
ret
crlf endp
;-----
;-----
maxtomin proc near
    mov cx,num;数组中有10个数
    dec cx;外循环9次，完成每次外循环后把最小的数沉底，放到最后
loop1:
    mov di,cx;外循环次数暂存到di里
    mov bx,0
loop2:
    mov ax,score[bx]
    cmp ax,score[bx+2]
    jge continue;如果前面的数大，不交换
    xchg ax,score[bx+2]
    mov score[bx],ax
continue:
    add bx,2
    loop loop2
    mov cx,di;内循环次数等于cx，内循环用完cx后，恢复外循环的cx
    loop loop1
ret
maxtomin endp
;-----
;-----
binidec proc near
;    mov cx,10000d
;    call dec_div
;    mov cx,1000d
;    call dec_div
    mov cx,100d
    call dec_div
    mov cx,10d
    call dec_div
    mov cx,1d
    call dec_div
    ret
binidec endp
;-----
dec_div proc near
    mov ax,bx
    mov dx,0
    div cx
    mov bx,dx
    mov dl,al
    add dl,30h
    mov ah,2
    int 21h
    ret
dec_div endp
;-----
trans proc near
    mov ch,4

rotate:
    mov cl,4
    rol bx,cl

```

```

        mov al,b1
        and al,0fh
        add al,30h
        cmp al,3ah
        jl print
        add al,7h

print:
        mov dl,al
        mov ah,02h
        int 21h
        dec ch
        jnz rotate
ret
trans endp
;-----
exit:
        ret
main endp
codeseg ends
end start

```

## 13.逻辑尺

```

dataseg segment
    x dw 1,2,3,4,5,6,7,8,9,10
    y dw 2,3,4,5,6,7,8,9,10,11
    z dw 10 dup(?)
    logic_rule dw 00dch
dataseg ends
;
codeseg segment
    assume cs:codeseg, ds:dataseg, es:dataseg
main proc far
start:
    push ds
    sub ax,ax
    push ax
    mov ax,dataseg
    mov ds,ax
    mov es,ax
;main begin
    mov bx,0
    mov cx,10
    mov dx,logic_rule
next:
    mov ax,x[bx]
    shr dx,1
    jc subtract
    add ax,y[bx]
    jmp result
subtract:
    sub ax,y[bx]
result:
    mov z[bx],ax
    add bx,2
    loop next

```

```

show:
    lea si,z
    mov bx,[si+2]
    call tt
    jmp exit
    ;-----
;把bx的二进制形式打印出来
tt proc near
    mov ch,16
rr:
    mov cl,1
    rol bx,cl
    mov al,bl
    and al,01h
    add al,30h
    mov dl,a1
    mov ah,02h
    int 21h
    dec ch
    jnz rr
ret
tt endp
;-----
exit:
    ret
main endp
codeseg ends
    end start

```

## 14.search3

```

dataseg segment
    mess1 db 'Enter keyword:', '$'
    mess2 db 'Enter Sentence:', '$'
    mess3 db 'Match at location:', '$'
    mess4 db 'H of the sentence.', '$'
    mess5 db 'No match.', '$'
    offsetnum dw 0
;
keyin label byte
    maxk db 10
    actk db ?
    key db 10 dup(?)
;
senin label byte
    maxs db 50
    acts db ?
    sen db 50 dup(?)
;

dataseg ends

codeseg segment
    assume cs:codeseg, ds:dataseg, es: dataseg
main proc far

```



```

start:
    push ds
    sub ax,ax
    push ax
    mov ax,dataseg
    mov ds,ax
    mov es,ax
;main begin
    lea dx,mess1;输出Enter keyword:
    mov ah,09h
    int 21h
    lea dx,keyin;读入关键字
    mov ah,0ah
    int 21h
    call crlf
;
a00:
    lea dx,mess2;输出Enter Sentence:
    mov ah,09h
    int 21h
    lea dx,senin;读入句子
    mov ah,0ah
    int 21h
    call crlf
;

;若输入句子是ctrl+C则退出
    mov di,0
    mov al,sen[di]
    cmp al,3;一定要和低字节，否则加上高字节就不是3了
    jz exit
;

    mov cl,acts
    mov ch,0
    sub cl,actk
    inc cx;cx里是外总比较次数
find:
    lea si,key
    lea di,sen
    add di,offsetnum
    push cx
    mov cl,actk;内比较次数
    mov ch,0
    cld
    repe cmpsb
    jz match;匹配
    pop cx
    inc offsetnum
    loop find
nomatch:
    lea dx,mess5
    mov ah,09
    int 21h
    jmp exit

match:
    pop cx;把循环里欠下的pop补上

```

```

    lea bx,sen
    sub di,bx
    mov al,actk
    mov ah,0
    sub di,ax
    mov bx,di
    call trans
    lea dx,mess4
    mov ah,09h
    int 21h
    jmp exit

;-----
trans proc near
    mov ch,4

rotate:
    mov cl,4
    rol bx,cl
    mov al,bl
    and al,0fh
    add al,30h
    cmp al,3ah
    jl print
    add al,7h;'A-Z'

print:
    mov dl,al
    mov ah,02h
    int 21h
    dec ch
    jnz rotate
ret
trans endp

;-----
;-----
;回车换行
crlf proc near
    mov dl,0dh
    mov ah,02h
    int 21h
    mov dl,0ah
    mov ah,02h
    int 21h
ret
crlf endp

;-----
exit:
    ret
main endp
codeseg ends
end start

```

## 15.查找匹配字符并删除

```
dataseg segment
    mess1 db 'Enter keyword:', '$'
    mess2 db 'Enter Sentence:', '$'
    keychar db ?
;
senin label byte
    maxs db 50
    acts db ?
    sen db 50 dup(?)
;
dataseg ends

codeseg segment
    assume cs:codeseg, ds:dataseg, es: dataseg
main proc far
start:
    push ds
    sub ax, ax
    push ax
    mov ax, dataseg
    mov ds, ax
    mov es, ax
;main begin
    lea dx, mess1; 输出Enter keyword:
    mov ah, 09h
    int 21h
    ; 读入关键字
    mov ah, 01h
    int 21h
    mov keychar, al
    call crlf
;
a00:
    lea dx, mess2; 输出Enter Sentence:
    mov ah, 09h
    int 21h
    lea dx, senin; 读入句子
    mov ah, 0ah
    int 21h
    call crlf
;
    mov cl, acts
    mov ch, 0
    mov si, 0
goon:
    mov al, keychar
    cmp sen[si], al
    jnz next
    call delete; 如果匹配, 删除这个字符
    dec acts
next:
    inc si
    loop goon

show:
```

```

        mov cl,acts
        mov ch,0
        mov si,0
a1:
        mov dl,sen[si]
        mov ah,02
        int 21h
        inc si
        loop a1

        jmp exit

;-----
;回车换行
crlf proc near
        mov dl,0dh
        mov ah,02h
        int 21h
        mov dl,0ah
        mov ah,02h
        int 21h
ret
crlf endp
;-----
;-----
trans proc near
        mov ch,4

rotate:
        mov cl,4
        rol bx,cl
        mov al,b1
        and al,0fh
        add al,30h
        cmp al,3ah
        jl print
        add al,7h;'A-Z'

print:
        mov dl,al
        mov ah,02h
        int 21h
        dec ch
        jnz rotate
ret
trans endp
;-----
delete proc near

        push bx
        lea bx,sen
        push si
        mov di,si
        inc si
        add di,bx
        add si,bx
        cld
        push cx

```

```

        rep movsb
        pop cx
        pop si
        pop bx
        dec si;从当前字符开始比
        inc cx;从当前字符开始比

        ret
delete endp
;-----
exit:
        ret
main endp
codeseg ends
end start

```

## 16.找到最小偶数

```

dataseg segment
        data dw 3,5,7,14,2,6
dataseg ends

codeseg segment
        assume cs:codeseg, ds:dataseg, es: dataseg
main proc far
start:
        push ds
        sub ax,ax
        push ax
        mov ax,dataseg
        mov ds,ax
        mov es,ax

        mov ax,0
        mov bx,0
        mov cx,6
;找到数组中第一个偶数
findeven:
        mov ax,data[bx]
        add bx,2
        test ax,01h
        jnz findeven

        mov bx,0
;找到最小偶数放在AX中
compare:
        mov dx,data[bx]
        add bx,2
        test dx,01h
        jnz loop1
        cmp ax,dx
        jle loop1
        mov ax,dx

loop1:
        loop compare
;显示最小偶数，缺点是必须是0-9中的数才能正确显示

```

```

show:
    add ax,30h
    mov dl,a1
    mov ah,2
    int 21h

ret
main endp
codeseg ends
end start

```

## 17.人名排序

```

;课本231页
        .model  small
        .stack  40h
        .data
namepar label byte
maxnlen db 21
namelen db ?
namefld db 21 dup(?)

crlf db 13,10,'$'
endaddr dw ?
messg1 db 'Name?','$'
messg2 db 'Sorted names:',13,10,'$'
namectr db 0;输入的名字个数
nametab db 30 dup(20 dup(' '))
namesav db 20 dup(?),13,10,'$'
swapped db 0
;
        .code
begin proc far
    mov ax,@data
    mov ds,ax
    mov es,ax

    cld
    lea di,nametab
a20loop:
    call b10read
    cmp namelen,0
    jz a30;结束输入，去排序
    cmp namectr,30
    je a30;30个表项满了，去排序
    call d10stor;存储名字到表中
    jmp a20loop
a30:
    cmp namectr,1
    jbe a40;不用排序
    call g10sort;排序
    call k10disp;打印
a40:
    mov ax,4c00h
    int 21h
begin endp
;-----

```

```

;接收名字输入到缓冲区
b10read proc near
    mov ah,09
    lea dx,messg1
    int 21h
    mov ah,0ah
    lea dx,namepar
    int 21h
    mov ah,09
    lea dx,crlf
    int 21h
;不足的补空格
    mov bh,0
    mov bl,namelen
    mov cx,21
    sub cx,bx
b20:
    mov namefld[bx],20h
    inc bx
    loop b20
    ret
b10read endp
;-----
;存储名字到表中
d10stor proc near
    inc namectr
    cld
    lea si,namefld
    mov cx,10
    rep movsw
    ret
d10stor endp
;-----
;名字排序
g10sort proc near
    sub di,40
    mov endaddr,di;设置停止标志
g20:
    mov swapped,0
    lea si,nametab
g30:
    mov cx,20;比较长度
    mov di,si
    add di,20;下一个名字
    mov ax,di
    mov bx,si
    repe cmpsb
    jbe g40;不交换
    call h10xchg
g40:
    mov si,ax
    cmp si,endaddr;到表尾结束了吗?
    jbe g30;没结束
    cmp swapped,0;有交换吗?
    jnz g20;有交换
    ret
g10sort endp
;-----

```

```

;交换表中的元素
h10xchg proc near
    mov cx,10
    lea di, namesav
    mov si, bx
    rep movsw;把前一个元素放到缓存
;
    mov cx,10
    mov di, bx
    rep movsw;把后一个数放到前一个数中
;
    mov cx,10
    lea si, namesav
    rep movsw;把缓存中的数放到后一个数中
    mov swapped,1;设置交换标志位
    ret
h10xchg endp
;-----
;显示输入的人名
k10disp proc near
    mov ah,09h
    lea dx, messg2
    int 21h
    lea si, nametab
k20:
    lea di, namesav
    mov cx,10
    rep movsw
    mov ah,9
    lea dx, namesav
    int 21h
    dec namectr
    jnz k20
    ret
k10disp endp
;-----
end begin

```

## 18.查询表格

```

datasg      segment para    'data'
messl       db              'stock number?',13,10,'$'
;
stoknin     label  byte
    max      db             3
    act      db             ?
    stokn     db            3 dup(?)
;
stoktab     db              '05',' Excavators'
            db              '08',' Lifters   '
            db              '09',' Presses   '
            db              '12',' valves    '
            db              '23',' Processors'
            db              '27',' Pumps     '
;
descrn      db              14 dup(20h),13,10,'$'

```



```

mess      db      'Not in table! ','$'

datasg ends
;

codesg     segment para 'code'
            assume  cs:codesg,ds:datasg,es:datasg
;

main       proc     far
            push     ds
            sub      ax,ax
            push     ax

            mov      ax,datasg
            mov      ds,ax
            mov      es,ax
;MAIN PART OF PROGRAM GOES HERE

start:
            lea      dx,mess1
            mov      ah,09
            int      21h
            lea      dx,stoknin
            mov      ah,0ah
            int      21h
            cmp      act,0
            je       exit
            mov      al,stokn
            mov      ah,stokn+1
            mov      cx,06
            lea      si,stoktab

a20:
            cmp      ax,word ptr[si];比较两个字节，一个字
            je       a30
            add      si,14
            loop     a20
            lea      dx,mess
            mov      ah,09
            int      21h
            jmp      exit

a30:
            mov      cx,14
            lea      di,descrn
            rep      movsb
;
            lea      dx,descrn
            mov      ah,09
            int      21h
            jmp      start

exit:
            ret
main       endp
;
codesg     ends

```

```
;
```

```
end    main
```