利用跳转表技术实现根据用户输入的星期几的数字代号在屏幕上显示星期几的英文 2)建立一张跳

名称的功能。

(提示:1)键盘输入的是数字的 ASCII 码,需要转换成数字。转表,表中存放打印每个星期的程序段的入口地址。

```
.8086
                                               mov dl,0dh
.model small
                                               int 21h
.stack
                                               imp table[si]
.data
  table dw routine 1
                                               routine 1:
     dw routine 2
                                                 mov dx, offset day 1
     dw routine 3
                                                 imp exit
     dw routine 4
                                               routine 2:
     dw routine 5
                                                 mov dx,offset day2
     dw routine 6
                                                 imp exit
     dw routine 7
                                              routine 3:
  day1 db "monday!", 0Ah,0Dh,'$'
                                                 mov dx,offset day3
  day2 db "tuesday!", 0Ah,0Dh,'$'
                                                 imp exit
  day3 db "wednesday!", 0Ah,0Dh,'$'
                                               routine 4:
  day4 db "thursday!", 0Ah,0Dh,'$'
                                                 mov dx,offset day4
  day5 db "friday!", 0Ah,0Dh,'$'
                                                 imp exit
  day6 db "saturday!", 0Ah,0Dh,'$'
                                               routine 5:
  day7 db "sunday!", 0Ah,0Dh,'$'
                                                 mov dx,offset day5
.code
                                                 imp exit
start:
                                               routine 6:
  mov ax,@data
                                                 mov dx,offset day6
  mov ds,ax
                                                 jmp exit
  mov ah,01h
                                               routine 7:
  int 21h
                                                 mov dx,offset day7
  sub al,31h
                                                 jmp exit
  mov ah.0h
                                             exit:
  mov cl,2
                                               mov ah,09h
  mul cl
                                               int 21h
  mov si.ax
                                               mov ah,4ch
  mov dl,0ah
                                               int 21h
  mov ah,02h
                                             end start
  int 21h
```

STRING BYTE 5 DUP(20H),'\$'; 20H 为空格的 ASCII 码 请编写完整程序,在屏幕上以十进制的形式将 NUM 这个数打印出来,可以借助 STRING 这个字符串。(NUM 这个数可以定义为一个任意字型数)。

```
.8086
.model small
.stack
.data
num word 3570h
string byte 5 dup(20h),'$'
```

.code start:  mov ax,@data mov ds,ax mov ax,num mov dx,0 mov bx,offset string+4 mov cl,10 mov ch,0 lp: div cx add dl,30h mov [bx],dl mov dl,0 dec bx er	cmp ax,0 jnz lp inc bx mov dx,bx mov ah,09h int 21h mov dl,0ah mov ah,02h int 21h mov dl,0dh int 21h mov dl,0dh int 21h mov ah,4ch int 21h nd start
8259 可编程中断	
.MODEL SMALL .8086 .stack .data come byte 00000000B ; 计算中断到来次数的变量 .code start: mov ax,@data mov ds,ax cli mov ax,0 ; init interrupt vector TABLE mov es,ax mov si,0 ; 由于模拟器的错误,所有中断向量 需要指向同一个地址 mov cx,255 l: mov ax,offset int0 mov es:[si],ax mov ax,seg int0 mov es:[si+2],ax add si,4 loop l mov ax,offset int0 mov es:[si],ax mov ax,seg int0 mov es:[si],ax mov ax,seg int0 mov es:[si+2],ax mov ax,seg int0 mov es:[si+2],ax mov ax,@data mov ds,ax mov al,00010011b ; init 8259 mov dx,210h out dx,al ; ICW1 mov al,60h	mov dx,212h out dx,al ; ICW2 mov ax,00000001h out dx,al ; ICW4 mov ax,0 out dx,al ; OCW1 sti jmp \$ int0 proc push ax push dx push ds mov ax,@data mov ds,ax mov al, come ; 中断到来, 计数器+1 inc al mov come, al mov dx,210h out dx,al pop ds pop dx pop ax iret int0 endp END start

```
交通灯
```

```
.8086
.MODEL SMALL
.stack
.data
  count byte 0h
.code
start:
     mov ax,@data
     mov ds,ax
  mov dx,226h
  mov al,00110111B
                            ; 8254
  out dx,al
  mov ax,1000h
  mov dx,220h
  out dx,al
  mov al,ah
  out dx,al ;c0
  mov dx,226h
  mov al,01110111B
  out dx.al
  mov ax,1000h
  mov dx,222h
  out dx,al
  mov al,ah
  out dx,al ;c1
  mov al,10000000B ; 8255
  mov dx,206h
  out dx,al
  mov al,10000001B
  mov dx,200h
  out dx,al
  cli
     mov ax,0
     mov es,ax
     mov si,0
     mov cx,255
I: mov ax,offset int0
  mov es:[si],ax
  mov ax, seg int0
  mov es:[si+2],ax
  add si,4
  loop I
  mov ax, offset int0
                          ; 修改中断向量表
  mov es:[si],ax
```

mov ax,seg int0 mov es:[si+2],ax mov ax,@data mov ds,ax sti

mov al,00010011b ; init 8259

mov dx,210h

out dx,al ; ICW1

;mov al,60h ;mov dx,212h

;out dx,al ; ICW2

;mov ax,00000001b ;out dx,al ; ICW4

;mov ax,0

;out dx,al ; OCW1

MOV AL,00001000B;00001000B

MOV DX,212H OUT DX,AL MOV AL,01H OUT DX,AL

jmp \$