

实验源码

10-1

;10_1			
DDATA	SEGMENT		
D1	DW	1234H	
D2	DW	5678H	
P1	DW	?	
P2	DW	?	
DDATA	ENDS		
EDATA	SEGMENT		
E1	DB	?	
E2	DW	4	DUP(?)
EDATA	ENDS		
SSTACK	SEGMENT	STACK	'STACK'
	DW	100H	DUP(?)
SSTACK	ENDS		
CCODE	SEGMENT		
MAIN	PROC	FAR	
	ASSUME	CS:CCODE,DS:DDATA,SS:SSTACK,ES:EDATA	
START:	PUSH	DS	
	XOR	AX,AX	
	PUSH	AX	
	MOV	AX,DDATA	
	MOV	DS,AX	
	MOV	AX,EDATA	
	MOV	ES,AX	
L1:	MOV	AX,D1	
	MUL	D2	
	MOV	BX,OFFSET P1	
	MOV	[BX],AX	
	MOV	[BX+2],DX	
	RET		
MAIN	ENDP		
CCODE	ENDS		
	END	MAIN	

10-2

coseg	segment	
	assume	cs:coseg
	mov	al,8bh
	push	ax
	and	al,0f0h

	mov	cl,4
	shr	al,cl
	add	al,30h
	cmp	al,3ah
	jb	ds1
	add	al,7
ds1:	mov	dl,al
	mov	ah,2
	int	21h
	pop	ax
	and	al,0fh
	add	al,30h
	cmp	al,3ah
	jb	ds2
	add	al,7
ds2:	mov	dl,al
	mov	ah,2
	int	21h
	mov	ah,4ch
	int	21h
coseg	ends	
	end	

10-3

code	segment
	assume cs:code,ds:data,ss:sstack
	mov ax,data
	mov ds,ax
	mov dx,offset info
	mov ah,9
	int 21h
	mov ah,1
	int 21h
	and al,0fh
	mov bx,offset table
	xlat
	push ax
	mov cl,4
	shr al,cl
	or al,30h
	cmp al,3ah
	jb br1
	add al,7
br1:	mov dl,al

	mov	ah,2
	int	21h
	pop	ax
	and	al,0fh
	or	al,30h
	cmp	al,3ah
	jb	br2
	add	al,7
br2:	mov	dl,al
	mov	ah,2
	int	21h
	mov	ah,4ch
	int	21h
code	ends	
data	segment	
table	db	0h,1h,4h,9h,16h,25h,36h,49h,64h,81h
info	db	'please input one number(0~9):',0dh,0ah,'\$'
data	ends	
sstack	segment	stack 'stack'
	dw	50h dup(?)
sstack	ends	
	end	

10-4

data	segment	
buf	db	10
	db	01h,38h,47h,21h,60h,52h,33h,36h,53h,76h
num	db	3 dup(?)
data	ends	
code	segment	
main	proc	far
	assume	cs:code,ds:data
start:	push	ds
	xor	ax,ax
	push	ax
	mov	ax,data
	mov	ds,ax
	mov	ch,buf
	mov	bx,1
	mov	dx,0
lp:	mov	ah,buf[bx]
	cmp	ah,30h
	j1	next
	cmp	ah,39h

	jg	abc
	inc	dh
	jmp	next
abc:	cmp	ah,41h
	jnl	next
	cmp	ah,5ah
	jg	next
	inc	dl
next:	inc	bx
	dec	ch
	jnz	lp
	mov	buf[bx],dh
	mov	buf[bx+1],dl
	mov	ah,buf
	sub	ah,dh
	sub	ah,dl
	mov	buf[bx+2],ah
	mov	al,num
	call	dispal
	mov	al,num+1
	call	dispal
	mov	al,num+2
	call	dispal
	ret	
main	endp	
dispal	proc	
	push	cx
	push	dx
	push	ax
	mov	cl,4
	shr	al,cl
	or	al,30h
	cmp	al,3ah
	jb	br1
	add	al,7
br1:	mov	dl,al
	mov	ah,2
	int	21h
	pop	ax
	and	al,0fh
	or	al,30h
	cmp	al,3ah
	jb	br2
	add	al,7

br2:	mov	dl,al
	mov	ah,2
	int	21h
	mov	dl,20h
	int	21h
	pop	dx
	pop	cx
	ret	
dispal	endp	
code	ends	
	end	

10-5

code	segment	
buf	db	4 dup(?)
	assume	cs:code,ds:code
start:	mov	ax,code
	mov	ds,ax
	mov	bx,90afh
	mov	si,offset buf
	mov	ch,4
next:	mov	cl,4
	rol	bx,cl
	mov	al,bl
	and	al,0fh
	cmp	al,0ah
	jnl	store
	dec	ch
	jnz	next
	jmp	resig
store:	or	al,30h
	mov	[si],al
	mov	dl,al
	mov	ah,2
	int	21h
	inc	si
	dec	ch
	jnz	next
resig:	mov	ah,4ch
	int	21h
code	ends	
	end	