

6.14

```

DATAS SEGMENT
    STRG1 DB 'HELLO WORLD!$'
    N DB ?
DATAS ENDS

EXTRAS SEGMENT
    STRG2 DB 20 DUP(?)
EXTRAS ENDS

CODES SEGMENT
    ASSUME CS:CODES,DS:DATAS,ES:EXTRAS
START:
    MOV AX,DATAS
    MOV DS,AX
    MOV AX,EXTRAS
    MOV ES,AX

    ;获取长度赋给CX
    MOV AH,0
    MOV AL,N-STRG1
    MOV CX,AX

    LEA SI,STRG1
    LEA DI,STRG2
    CLD
    ;传送
    REP MOVSB

    MOV AH,4CH
    INT 21H
CODES ENDS
    END START

```

6.16

```

DATAS SEGMENT
    CATT DB 'A','B','C','D','@','F'
    SIGN DB 0
DATAS ENDS

CODES SEGMENT
    ASSUME CS:CODES,DS:DATAS

```

```

START:
    MOV AX,DATAS
    MOV DS,AX
    MOV CX,SIGN-CATT
    MOV BP,0
    LET1:
    CMP CATT[BP], '@'
    JNE LET2
    MOV SIGN,1
    JMP LETE

    LET2:
    INC BP
    LOOP LET1

    LETE:
    ADD SIGN,30H
    MOV AH,2
    MOV DL,SIGN
    INT 21H
    MOV AH,4CH
    INT 21H
CODES ENDS
    END START

```

6.17

```

DATAS SEGMENT
    VALUE DW 1,-1,2,-3,2,3,3,-1
    N DB ?
    NUM DB 0
DATAS ENDS

CODES SEGMENT
    ASSUME CS:CODES,DS:DATAS
START:
    MOV AX,DATAS
    MOV DS,AX

    ;计算数组长度
    MOV AL,N-VALUE
    MOV BL,2
    MOV AH,0
    IDIV BL
    MOV AH,0

```

MOV CX,AX

MOV BP,0

;遍历判断是否为负

LET0:

CMP VALUE[BP],0

JGE LET1

INC NUM

LET1:

ADD BP,2

LOOP LET0

;保存到AX中

MOV AL,NUM

MOV AH,0

MOV AH,4CH

INT 21H

CODES ENDS

END START

6.19

DATAS SEGMENT

STR1 DB 'HELLO!'

STR2 DB 'hELLO!word'

SAME DB 0

NSAME DB 0

DATAS ENDS

CODES SEGMENT

ASSUME CS:CODES,DS:DATAS,ES:DATAS

START:

MOV AX,DATAS

MOV DS,AX

MOV ES,AX

MOV AL,STR2-STR1

MOV BL,SAME-STR2

MOV AH,0

MOV BH,0

MOV BP,0

;CX取最小长度,DL取长度差

MOV DH,AL

MOV CX,BX

SUB AL,BL

MOV DL,AL

MOV AL,DH

CMP AL,BL

JBE LET0

JMP LET1

LET0:

MOV CX,AX

SUB BL,AL

MOV DL,BL

;逐个字符比较

LET1:

MOV AL,STR1[BP]

CMP AL,STR2[BP]

JE LET2

INC NSAME

JMP LET3

LET2:

INC SAME

LET3:

INC BP

LOOP LET1

LETE:

ADD NSAME,DL ;长度差必定相异

ADD SAME,30H

ADD NSAME,30H

;输出

MOV AH,2

MOV DL,SAME

INT 21H

MOV DL,' '

INT 21H

MOV DL,NSAME

INT 21H

MOV AH,4CH

INT 21H

CODES ENDS

END START

6.20

DATAS SEGMENT

FOUND DW 3,5,62,80,2,65,99,21

N DB ?

MIN DW 10000

DATAS ENDS

CODES SEGMENT

ASSUME CS:CODES,DS:DATAS

START:

MOV AX,DATAS

MOV DS,AX

;计算数组长度

MOV AL,N-FOUND

MOV BL,2

MOV AH,0

IDIV BL

MOV AH,0

MOV CX,AX

MOV BP,0

;遍历判断是否最小

LET0:

MOV AX,FOUND[BP]

CMP AX,MIN

JGE LET1

MOV MIN,AX

LET1:

ADD BP,2

LOOP LET0

;输出

MOV BX,MIN

ADD BL,30H

```
MOV AH,2
MOV DL,BL
INT 21H
```

```
MOV AH,4CH
INT 21H
CODES ENDS
END START
```

6.22

```
DATAS SEGMENT
    SCORE DB 23,95,89,34,67,88,25,90,91,22
           DB 33,60,88,92,93,66,57,89,34,56
           DB 89,90,91,92,88,87,66,55,21,66
    N DB ?
DATAS ENDS
```

```
STACKS SEGMENT
    DW 10 DUP(0)
STACKS ENDS
```

```
CODES SEGMENT
    ASSUME CS:CODES,DS:DATAS,SS:STACKS
START:
    MOV AX,DATAS
    MOV DS,AX
    MOV AX,STACKS
    MOV SS,AX
    MOV SP,20
```

```
MOV AL,N-SCORE
DEC AL
MOV AH,0
;冒泡排序
MOV CX,AX      ;排 CX 趟
OUT2:
PUSH CX
MOV SI,0
```

```
OUT3:
MOV AL,SCORE[SI]
CMP AL,SCORE[SI+1]
JB NEXT      ;升序排序
XCHG AL,SCORE[SI+1] ;交换顺序
```

MOV SCORE[SI],AL

NEXT:

INC SI

LOOP OUT3

POP CX

LOOP OUT2

MOV AH,4CH

INT 21H

CODES **ENDS**