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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