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classmate

Date

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BUBBLE

SORT

.model small

.data

n db 05

a db 05, 07, 04, 03, 06

.code

MOV ax, @data

mov ds, ax

lea si, a

mov cl, n

dec cl

outloop: mov ih, cl

mov si, 00h

INLOOP: mov AL, a[si]

inc si

cmp al, a[si]

jc NOEXCHANGE

xchg al, a[si]

mov a[si-1], al

NOEXCHANGE: dec ih

JNZ INLOOP

DEC cl

JNZ OUTLOOP

MOV AH, 4CH

INT 21H

END

ASCII

• model small

• data

msg1 db 0DH, 0AH, "Enter alphanumeric
character: \$"

sum db 02H dup(0)

• code

mov ax, @data

mov ds, ax

lea dx, msg1

call disp

mov ah, 01H

int 21H

mov bl, al

mov cl, 4

shr al, cl

cmp al, 0AH

JC DIGIT

ADD AL, 07H

DIGIT:

```
ADD AL, 30H
MOV RES, al
AND BL, 0FH
CMP BL, 0AH
JC DIGIT1
ADD BL, 07H
```

~~DIGIT:~~~~```
ADD AL, 30H
MOV RES, AL
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DIGIT1:

```
ADD BL, 30H
MOV RES+1, BL
MOV AH, 03H
INT 10H
MOV AH, 02H
MOV BH, 00H
MOV DH, 0CH
MOV DL, 28H
MOV RES+2, '$'
LEA DX, RES
CALL DISP
MOV AH, 4CH
INT 21H
```

DISP PROC NEAR

MOV AH, 09H

INT 21H

RET

DISP ENDP

END