24. SORT N BYTES

DATA SEGMENT

N DB 08H

A1 DB 08,07,06,05,04,03,02,01,00

DATA ENDS

CODE SEGMENT

ASSUME CS: CODE, DS:DATA

START: MOV AX,DATA

 MOV DS,AX

 MOV DH,N

 DEC DH

 AG2: MOV CL,N

 DEC CL

 MOV CH,00

 LEA SI,A1

 MOV DI,SI

 INC DI

 AG1: MOV AL,[SI]

 MOV AH,[DI]

 CMP AL,AH

 JC NEXT

 MOV [DI],AL

 MOV [SI],AH

 NEXT: INC SI

 INC DI

 LOOP AG1

 DEC DH

 JNZ AG2

 INT 3

 CODE ENDS

 END START

25. SQUARE OF A NUMBER

DATA SEGMENT

N DB 08H

A1 DW 0000H

DATA ENDS

CODE SEGMENT

ASSUME CS: CODE, DS:DATA

START: MOV AX,DATA

 MOV DS,AX

 MOV AL,N

 MOV BL,N

 MUL BL

 MOV A1,AX

 INT 3

 CODE ENDS

 END START

26. SEPARATE POSITIVE AND NEGATIVE NUMBERS

DATA SEGMENT

N DB 0AH

L1 DB 98H,45H,87H,23H,96H,23H,56H,45H,80H,87H

L2 DB 09 DUP(00H)

L3 DB 09 DUP(00H)

DATA ENDS

CODE SEGMENT

ASSUME CS: CODE, DS:DATA

START: MOV AX,DATA

 MOV DS,AX

 MOV CL,N

 MOV CH,00H

 LEA BX,L1

 LEA SI,L2

 LEA DI,L3

 AGAIN:MOV AL,[BX]

 ROL AL,01H

 JNC NEXT

 ROR AL,01H

 MOV [SI],AL

 INC SI

 JMP N2

 NEXT: ROR AL,01H

 MOV [DI],AL

 INC DI

 N2: INC BX

 LOOP AGAIN

 INT 3

 CODE ENDS

 END START