16. Largest among 3 numbers

DATA SEGMENT

A1 DB 0E8H

A2 DB 74h

A3 DB 0C2H

A4 DB ?

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE,DS:DATA

START: MOV AX,DATA

 MOV DS,AX

 MOV AL,A1

 MOV AH,A2

 CMP AL,AH

 JNC N1

 MOV AH,AL

 N1: CMP AL,A3

 JNC N2

 MOV AL,A3

 N2: MOV A4,AL

 INT 3

CODE ENDS

17. Sum of n numbers

DATA SEGMENT

A1 DB 0AH

A2 DB 74H,23H,56H,32H,78H,45H,23H,89H,55H,25H

A3 DB 00H

A4 DB 00H

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE,DS:DATA

START: MOV AX,DATA

 MOV DS,AX

 MOV DL,00H

 MOV AL,00H

 MOV CX,000AH

 LEA SI,A2

 AGAIN: ADD AL,[SI]

 JNC N1

 INC DL

 N1: INC SI

 LOOP AGAIN

 MOV A3,AL

 MOV A4,DL

 INT 3

CODE ENDS

 END START

18. Count number of even numbers among n numbers

 DATA SEGMENT

A1 DB 0AH

A2 DB 74H,23H,56H,32H,78H,45H,23H,89H,55H,25H

A3 DB 00H

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE,DS:DATA

START: MOV AX,DATA

 MOV DS,AX

 MOV DL,00H

 MOV CX,000AH

 LEA SI,A2

 AGAIN: MOV AL,[SI]

 ROR AL,01H

 JC N1

 INC DL

 N1: INC SI

 LOOP AGAIN

 MOV A3,DL

 INT 3

CODE ENDS

 END START

19. Smallest among n numbers

 DATA SEGMENT

A1 DB 0AH

A2 DB 74H,23H,56H,32H,78H,45H,23H,89H,55H,25H

A3 DB 00H

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE,DS:DATA

START: MOV AX,DATA

 MOV DS,AX

 MOV CX,000AH

 MOV AL,0FFH

 LEA SI,A2

 AGAIN: CMP AL,[SI]

 JC N1

 MOV AL,[SI]

 N1: INC SI

 LOOP AGAIN

 MOV A3,AL

 INT 3

CODE ENDS

 END START