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