20. Transfer block of n numbers

DATA SEGMENT

A1 DB 0AH

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

A3 DB ?

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

LEA DI,A3

AGAIN: MOV AL,[SI]

MOV [DI],AL

INC SI

INC DI

LOOP AGAIN

INT 3

CODE ENDS

END START

21. Fibonocci series

DATA SEGMENT

A1 DB 0AH

A2 DB ?

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE,DS:DATA

START: MOV AX,DATA

MOV DS,AX

MOV CL,A1

MOV CX,00H

DEC CX

MOV AL,00H

MOV BL,01H

LEA SI,A2

MOV [SI],AL

INC SI

MOV [SI],BL

AGAIN: ADD AL,BL

MOV DL,AL

MOV [SI],DL

MOV AL,BL

MOV BL,DL

INC SI

LOOP AGAIN

INT 3

CODE ENDS

END START

22. Square root of a number ( gives root and if no root gives 00)

DATA SEGMENT

A1 DW 0024H

A2 DB 00H

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE,DS:DATA

START: MOV AX,DATA

MOV DS,AX

MOV CL ,00H

MOV AX,0000H

MOV DX,0001H

ADDAGAIN: ADD AX,DX

INC CL

CMP AX,A1

JZ N1

JNC N2

ADD DX,02H

JMP ADDAGAIN

N1: MOV A2,CL

JMP N3

N2: MOV A2,00H

N3: INT 3

CODE ENDS

END START

23. Reverse of an array

DATA SEGMENT

A1 DB 0AH

A2 DB 12H,13H,14H,15H,16H,17H,18H,19H,20H,21H

DATA ENDS

CODE SEGMENT

ASSUME CS:CODE,DS:DATA

START: MOV AX,DATA

MOV DS,AX

LEA SI,A2

LEA DI,A2

MOV CL,A1

MOV CH,00H

ADD DI,CX

DEC DI

SHR CX,01H

AGAIN:MOV AL,[SI]

MOV AH,[DI]

MOV [DI],AL

MOV [SI],AH

INC SI

DEC DI

LOOP AGAIN

INT 3

CODE ENDS

END START