LAB # 06

TASK # 01

.model small

.stack

.data

arr word 50 dup (?)

.code

mov Ax,@Data

mov Ds,Ax

mov cx,50

mov bl,2

mov si,0

mov dx,1

check:

mov ax,dx

div bl

cmp ah,0

jne store

cmp ah,0

je store1

store:

mov arr[si],dx

inc si

inc dx

store1:

inc dx

LOOP check

mov si,offset arr

mov ah,4ch

int 21h

end

TASK # 02

.model small

.stack 010h

.data

arr db 1,2,3,4,5,6,7,8,9,0

var db 'N'

.code

mov ax,@data

mov ds,ax

mov ax,0

mov si,offset arr

mov cx,10

l1:

mov al,12h

cmp al,[si]

je FOUND

cmp al,[si]

jne NOTFOUND

FOUND:

mov var,'F'

jmp exit

NOTFOUND:

mov var,'N'

inc si

loop l1

exit:

mov si,offset var

mov ah,04ch

int 021h

end

TASK # 03

.model small

.stack 100h

.data

array db 0,2,3,4,5,6,7,8,9,20

largest db 1

smallest db 10

.code

mov ax, @data

mov ds, ax

mov ax, 0

mov cx, 10

mov bx, 0

mov si, offset largest

mov si, offset smallest

L1:

mov dl, array[bx]

cmp dl, largest

ja large

jmp L2

large:

mov largest, dl

L2:

mov dl, array[bx]

cmp dl, smallest

jb small

jmp l3

small:

mov smallest, dl

l3:

inc bx

Loop L1

mov si, offset largest

mov si, offset smallest

mov ah, 4ch

int 21h

end