

Q1:

[org 0x0100]

jmp start

num: dw 5

array: dw 0, 0,0,0,0

FillArray: cmp num,1

je return

mov [array], bx

add bi , 2

dec num

mov bx ,[array + bi]

call FillArray

return: ret

start:

mov bi , 0

mov bx, [array + bi]

call FillArray

mov ax ,0x4c00

int 0x21

Q2:

[org 0x0100]

jmp start

array : dw 7,33,9

craze:cmp ax , [array + bi]

jnb crazyhaha

mov ax , [array + bi]

add bi , 2

add si ,1

cmp si ,2

jne craze

crazyhaha:

pop ax

ret

start :

mov ax , 0

mov bi , 0

mov si , 0

call craze

```
mov ax , 0x4c00  
int 0x21
```

Q3:

```
[org 0x0100]
```

```
mov ax,0xb800  
mov es , ax  
mov di,0
```

```
clrscr: mov word[es:di],0x0F20  
        add di,2
```

```
        cmp di,4000  
        jne clrscr
```

```
nextchar: mov word[es:di],0x072A  
          add di,2  
          cmp di,4000  
          jne nextchar
```

```
mov ax,0x4c00  
int 21h
```