;;;;;;;;;;q1;;;;;;;;;;;;;;;;;;;;;

dosseg

.model small

.stack 100h

.data

.code

main proc

mov ax,@data

mov ds,ax

mov si,0030h

mov cx,0006h

mov di,0040h

mov al,[si]

l1: inc si

cmp al,[si]

jc l2

mov al,[si]

l2: loop l1

mov [di],al

int 03h

mov ah,4ch

int 21h

main endp

end main

;;;;;;;;;;;;;;;;;q2;;;;;;;;;;;;;;;;;

dosseg

.model small

.stack 100h

.data

.code

main proc

mov ax,@data

mov ds,ax

mov si,0030h

mov cx,0006h

mov di,0040h

mov al,[si]

l1: inc si

cmp al,[si]

jnc l2

mov al,[si]

l2: loop l1

mov [di],al

int 03h

mov ah,4ch

int 21h

main endp

end main

;;;;;;;;;;;;;;;;;;;;;q3;;;;;;;;;;;;;;;;;;

;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

;;;;;;;;;;;;;;;;;;;;;;;a5;;;;;;;;;;;;;;;;

;;;;;q1;;;;;;;;;;;;

dosseg

.model small

.stack 100h

.data

.code

main proc

mov ax,@data

mov ds,ax

mov si,0030h

mov di,0040h

mov bx,0050h

mov cx,0009h

l1: mov al,[si]

inc si

add al,[di]

inc di

mov [bx],al

inc bx

loop l1

int 03h

mov ah, 4ch

int 21h

main endp

end main

;;;;;;;;;;;;;;q2;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;

dosseg

.model small

.stack 100h

.data

.code

main proc

mov ax,@data

mov ds,ax

mov si,0030h

mov di,0040h

mov dx,0000h

mov bl,[si]

mov cx,bl

l2: cmp bl,00h

jz l1

dec bl

mov al,dl

add al,01h

daa

mov dl,al

mov al,dh

adc al,00h

daa

mov dh,al

loop l2

l1: mov [di],dx

int 03h

mov ah, 4ch

int 21h

main endp

end main

;;;;;;;;;;;;;;;q3;;;;;;;;;;;;;;;;;;;;;

dosseg

.model small

.stack 100h

.data

.code

main proc

mov ax,@data

mov ds,ax

mov si,0030h

mov di,0040h

mov al,[si]

mov bl,al

and al,0f0h

mov cl,04h

ror al,cl

mov dl,0ah

mul dl

mov dx,ax

mov al,bl

and al,0fh

mov ah,00h

add ax,dx

mov [di],ax

int 03h

mov ah, 4ch

int 21h

main endp

end main

;;;;;;;;;;;;;;;;;;;;;;;;;;q4;;;;;;;;;;;;;;;;;

dosseg

.model small

.stack 100h

.data

.code

main proc

mov ax,@data

mov ds,ax

mov si,0030h

mov di,0040h

mov al,[si]

mov dl,[si]

clc

rcr al,01

xor al,dl

mov [di],al

int 03h

mov ah, 4ch

int 21h

main endp

end main

;;;;;;;;;;;;q5;;;;;;;;;;;;;;;;;;;;

dosseg

.model small

.stack 100h

.data

.code

main proc

mov ax,@data

mov ds,ax

mov si,0030h

mov di,0040h

mov bx,0000h

mov ax,0000h

mov al,[si]

mov cx,[si]

mov bl,al

l1:

dec bl

cmp bl,00h

jz l2

mul bx

mov dx,ax

loop l1

l2: mov [di],dx

int 03h

mov ah, 4ch

int 21h

main endp

end main