

1)

```
.MODEL SMALL
.STACK 64
.DATA
AD      DB      ██████████

.CODE
MAIN    PROC FAR      ;this is the program entry point
MOV     AX,@DATA      ;load the data segment address
MOV     DS,AX          ;assign value to DS

MOV     SI,OFFSET AD

MOV     CL,9

MOV     BL,'e'

DON:    MOV     BH,[SI]

        CMP     BL,BH
        JZ     DEGIS

DON2:    INC     SI
        LOOP    DON

        JMP     SON

DEGIS:   MOV     DL,'a'
        MOV     [SI],DL
        JMP     DON2

SON:
        MOV     AH,09
        MOV     DX,OFFSET AD
        INT     21H

        MOV     AH,4CH      ;set up to
        INT     21H      ;return to DOS
MAIN    ENDP
END     MAIN      ;this is the program exit point
```

2)

```
.MODEL SMALL
.STACK 64
.DATA
AD DB [REDACTED]

.CODE
MAIN PROC FAR ;this is the program entry point
MOV AX,@DATA ;load the data segment address
MOV DS,AX ;assign value to DS

MOV SI,OFFSET AD
MOV DI,OFFSET AD

MOV CL,9

SUB AX,AX

DON: MOV AL,[SI]
PUSH AX
INC SI
LOOP DON

MOV CL,DL
SUB SI,CX

DON2:POP [SI]
INC SI
LOOP DON2

MOV [SI],BL

MOV AH,09H
MOV DX,OFFSET AD
INT 21H

MOV AH,4CH ;set up to
INT 21H ;return to DOS
MAIN ENDP
END MAIN ;this is the program exit point
```