.8086

.model small

.data

a db 02h, 01h, 06h, 03h

b db?

.code

start:

MOV AX, @data

MOV DS, AX

MOV CH, 04h

Loop2: MOV CL, 04h

LEA SI, a

Loop1: MOV AL, [SI]

MOV BL, [SI+1]

CMP AL, BL

JNC DOWN

MOV DL, [SI+1]

XCHG [SI], DL

MOV [SI+1], DL

DOWN: INC SI

DEC CL

JNZ Loop1

DEC CH

JNZ Loop2

MOV AH, 4Ch

INT 21h

end start

