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; Macros program example
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; =====
; This is an example program in 8086 Assembly
; =====

TITLE MACROS

; This instruction defines the memory model that MASM or TASM use
.model small

; Define the stack size. This instruction initializes the SP
.stack 160h

SWAP MACRO First,Second,Reg
    LOCAL CON
    mov Reg,First
    cmp Reg,Second
    jbe CON
    xchg Reg,Second
    mov First,Reg
CON:    nop
ENDM

; Variables & other definitions section
.data

m1 dw ?
m2 dw ?
m3 dw ?

; This is the program itself
.code
start:  mov ax,@data           ; Since the .data instruction doesn't initialize
        mov ds,ax             ; the ds register we have to do it manually

        SWAP m1,m2,cx
        SWAP m2,m3,dx
        SWAP m1,m2,ax

        mov ax,4c00h          ; This is the program terminator
        int 21h               ; just like putting "return 0" in C

end start
```