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C:\MASM\CMPSTRIN.ASM

```asm
.model small

display macro msg
        lea dx,msg
        mov ah,09h
        int 21h


endm


.data
msg1 db 0dh,0ah,"enter the first string:$"
msg2 db 0dh,0ah,"enter the second string:$"
msg3 db 0dh,0ah,"length of first string:$"
msg4 db 0dh,0ah,"length of second string:$"
msg5 db 0dh,0ah,"-----strings are equal-----$"
msg6 db 0dh,0ah,"-----strings are not equal-----$"
string1 db 80h dup(?)
string2 db 80h dup(?)

.code
start: mov ax,@data
        mov ds,ax
```

```asm
        display msg1
        mov si,offset string1
        call readstr
        mov bl,cl
        display msg2
        mov si,offset string2
        call readstr
        push bx
        push cx
        display msg3
        mov al,bl
        call len_dis
        display msg4
        mov al,cl
        call len_dis
        pop cx
        pop bx
        cmp cl,bl
        jne fail
        mov si,offset string1
        mov di,offset string2
        cld
```

```
chk:      mov al,[si]
          cmp al,[di]
          jne fail
          inc si
          inc di
          dec cl
          jnz chk
          display msg5
          jmp final


len_dis proc near
          xor ah,ah
          add al,00h
          aam
          add ax,3030h
          mov bh,al
          mov dl,ah
          mov ah,02h
          int 21h
          mov dl,bh
          mov ah,02h
```

```
ret
len_dis endp
readstr proc near
        xor cl,cl

back:   mov ah,01h
        int 21h
        cmp al,0dh
        je finish
        mov [si],al
        inc si
        inc cl
        jmp back

finish:mov [si],byte ptr'$'
        ret
readstr endp

fail:display msg6
final: mov ah,4ch
        int 21h
end
```

```
C:\MASM>cmpstrin

enter the first string:sun

enter the second string:sun

length of first string:03
length of second string:03
-----strings are equal-----
C:\MASM>cmpstrin

enter the first string:mom

enter the second string:dad

length of first string:03
length of second string:03
-----strings are not equal-----
C:\MASM>_
```