



## String compare

• model small

```
display msgno msg  
lea dx, msg  
mov AH, 09h  
INT 21h
```

ENDM

• data

```
msg1 db 0dh, 0Ah "Enter first string &$"  
msg2 db 0dh, 0Ah "Enter second string &$"  
msg3 db 0dh, 0Ah "Length of 1 string &$"  
msg4 db 0dh, 0Ah "Length of 2 string &$"  
msg5 db 0dh, 0Ah "Are equal...&$"  
msg6 db 0dh, 0Ah "Are unequal...&$"
```

```
String1 db 80h dup(?)
```

```
String2 db 80h dup(?)
```

• code

```
START: mov ax, @data
```

```
mov ds, ax
```

```
display msg1
```

```
mov SI, offset String1
```

```
call readstr
```

```
mov bl, cl
```

```
display msg2
```

```

mov SI, offset String2
call readstr
push BX
push CX
display msg 3
mov AL, BL
call len-dis
display msg 4
mov AL, CL
call len-dis
hlt CX
hlt BX
cmp CL, BL
JNE FAIL
MOV SI, OFFSET STRING1
MOV DI, OFFSET STRING2
CLP

```

```

chk 0: mov AL, [SI]
        mov AL, [DI]
        JNE FAIL
        INC SI
        INC DI
        DEC CL
        JNZ CHK
        display msg 5
        JMP FINAL

```

```

Len-disp proc Near
    XOR AH, AH
    ADD AL, 00H
    AAA
    ADD AX, 3030H

```



mov BH, AL  
mov AH, 02H  
INT 21H

Ret

len-dis endh -

readstr proc near

xor CL, CL

Back & mov AL, 01H

INT 21H

cmp AL, 0DH

JE FINISH

mov [SI], AL

inc SI

inc CL

JMP BACK

FINISH & mov [SI], byte ptr \$

RET

readstr endh -

fail & display msg -

serial & mov AH, 4ch

int 21h

END START ,

Search Tools

DOSBox 0.74, Cpu speed: 3000 cycles, Frameskip 0, Pr... — □ ×

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51628 + 464916 Bytes symbol space free

0 Warning Errors

0 Severe Errors

C:\MASM>link cmps;;

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LINK : warning L4021: no stack segment

C:\MASM>cmps

ENTER FIRST STRING : shivanshu

ENTER SECOND STRING : samarth

LENGTH OF FIRST STRING: 09

LENGTH OF SECOND STRING: 07

---STRINGS ARE NOT EQUAL---

C:\MASM>