

compare two strings

classmate

Date _____
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• model small

• data

str1 db 10 dup(0)

str2 db 10 dup(0)

len1 db 00

len2 db 00

msg1 db 0dh, 0ah, "Enter first
string : \$"

msg2 db 0dh, 0ah, "Enter
another string : \$"

msg3 db 0dh, 0ah, "strings are
equal \$"

msg4 db 0dh, 0ah, "Strings are
not equal \$"

msg5 db 0dh, 0ah, "Length of
first string : \$"

msg6 db 0dh, 0ah, "Length of
Second string : \$"

msg7 db 0dh, 0ah, "Length of
string is \$"

• code

mov ax, @data

mov ds, ax

lea dx, msg1

mov ah, 09h

int 21h

mov si, 00h

back1: mov ah, 01h

int 21h

cmp al, 0dh

JE next1

mov str1[si], al

inc si

inc len1

jmp back1

next1: lea dx, msg2

mov ah, 09h

int 21h

mov si, 00

back2: mov ah, 01h

int 21h

cmp al, 0dh

je next2

mov str2[si], al

inc si

inc len2

jmp back2

next2: mov al, len1

cmp al, len2

jne notequal

mov si, 00

mov di, 00
mov cl, len1

back3: mov al, str1[esi]
cmp al, str2[edi]

inc si

inc di

dec cl

jmp back3

lea dx, msg3

mov ah, 09h

int 21h

lea dx, msg7

~~mov ah, 09h~~

mov ah, 09h

int 21h

mov dl, len1

add dl, 30h

mov ah, 02h

int 21h

jmp last

not equal: lea dx, msg4

mov ah, 09h

int 21h

lea dx, msg5

mov ah, 09h

int 21h

```
mov dl, len1  
add dl, 30h  
mov ah, 02h  
int 21h
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lea dx, msg6  
mov ah, 0ah  
int 21h
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mov dl, len2  
add dl, 30h  
mov ah, 02h  
int 21h
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last: mov ah, 4ch  
int 21h  
end
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