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Q. Check if two strings are equal or not.?

• 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 second string \$"

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

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

msg5 db 0dh, 0ah, "length of first string is \$"

msg6 db 0dh, 0ah, "length of second string is \$"

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, 00

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

```

; when length of both strings are equal that is  
len1 = len2



```
mov si, 00
mov di, 00
mov cl, len1 ; mov cl, len2
```

```
back3: mov al, str1[si]
      cmp al, str2[di]
      jne notequal
      inc si
      inc di ; can use cld
      dec cl
      jnz back3 ; can use loop statement
```

```
lea dx, msg3
mov ah, 09h
int 21h
```

```
lea dx, msg7
mov ah, 09h
int 21h
```

```
mov dl, len1 ; mov dl, len2
add dl, 30h
mov ah, 02h
int 21h
jmp last
```

```
notequal: 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
```

```
lea dx, msg6  
mov ah, 09h  
int 21h
```

```
mov dl, len2  
add dl, 30h  
mov ah, 02h  
int 21h
```

```
last: mov ah, 4ch  
int 21h
```

```
end
```

— x — x —