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classmate

To check if a string
is a palindrome

Date

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model small

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

data

```
msg1 db 0dh, 0ah, "Enter string: $"
msg2 db 0dh, 0ah, "Entered string  
is a palindrome $"
```

~~msg3~~

```
msg3 db 0dh, 0ah, "Entered string  
is not a palindrome $"
```

```
str db 10h dup(0)
resstr db 10h dup(0)
len dw 0
```

code

```
mov ax, @data
mov ds, ax
display msg1
mov si, 00h
back1: mov ah, 01h
int 21h
cmp al, 0dh
jz next
```

```
mov str[si], al
inc si
inc len
jmp back1
```

next :

```
mov si, 00h
mov di, 00h 00h
add di, len
dec di
mov cx, len
```

back2: mov al, str[si]

```
mov reverse[di], al
inc si
```

dec di

loop back2

```
mov si, 00h
```

```
mov cx, len
```

add

back3: mov al, str[si]

```
cmp al, reverse[si]
```

```
jnz fail
```

loop back3

display msg2

jmp last

fail: display msg3

last: mov ah, 4ch

int 21h

end