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; Exercise 13 - Count Characters in C-style String
; Purpose: Compute length of null-terminated string.
; #belleswhoshell.ca
```

```
section .data
str db "Assembly", 0
```

```
section .bss
len resd 1
```

```
section .text
global _start
```

```
_start:
    lea rsi, [rel str] ; address of string
    xor rcx, rcx       ; count = 0
```

```
.loop:
    mov al, [rsi + rcx]
    cmp al, 0
    je .done
    inc rcx
    jmp .loop
```

```
.done:
    mov dword [len], ecx ; store length (low 32 bits of rcx)

    ; exit
    mov eax, 60
    xor edi, edi
    syscall
```