

Mar 26, 23 12:01

main.s

Page 1/1

```
.data
    str1: .asciz "cat in the hat."
    szsub: .quad 0
    nl: .asciz "\n"

.text
.global main
main:
    // generate sbstring from str1, at index 3 to 7 (begin inclusive, end exclusive)
    ldr x0, =str1
    mov x1, 4
    bl substrnd

    ldr x1,=szsub
    str x0,[x1] // storing pointer to string in sbstr. needed to free memory later.

    // Print output text
    ldr x0,=szsub
    ldr x0,[x0]
    bl putstring

    // Print newline
    ldr x0, =nl
    bl putstring

    // freeing memory
    ldr x0,=szsub
    ldr x0,[x0]
    bl free

exit:
    // Setup the parameters to exit the program and then call Linux to do it
    .
    mov x0, #0 // Sets return code to 0
    mov x8, #93 // Service command code 93 terminates
    svc 0 // Call linux to terminate the program
```