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main.s

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```
.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  substrend

    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
```