

Mar 28, 23 9:40

main.s

Page 1/1

```

.data
    szHello: .asciz "Hello, world!"
    nl: .asciz "\n"
.text
.global main
main:
    // Load the address of the string to replace
    ldr x0, =szHello

    // Load the character to be replaced
    mov x1, #'e'

    // Load the character to replace with
    mov x2, #'a'

    // Call the 'replace' subroutine to replace all occurrences of 'o' with
    'x'
    bl replace

    // Save the result on the stack
    str x0, [sp, #-16]!

    // Print the output string
    bl putstring
    ldr x0, [sp], #16

    // Free the memory allocated for the output string
    bl free

    // Print newline
    ldr x0, =nl
    bl putstring

    // 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

```