

Mar 27, 23 22:52

main.s

Page 1/1

```
.data
    str: .asciz "This is a BeginnersBook tutorial"
    out: .asciz "Last 'B' in str1 whose index<=15 - "
    result: .skip 21
    nl: .asciz "\n"

.text
.global main
// Last 'B' in str1 whose index<=15:10
main:
    // Load the target string address
    ldr x0, =str

    // Set the search character to 'B'
    mov w1, #'B'

    // Set the search starting index to 15
    mov x2, #15

    // Call the 'lstindxoffrm' subroutine
    bl  lstindxoffrm

    // Convert the result to a string
    ldr x1, =result
    bl  int64asc

    // Print the output text
    ldr x0, =out
    bl  putstring

    // Print the result
    ldr x0, =result
    bl  putstring

    // 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
```