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Istindxof.s
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/**
* lstindxof - Returns the last index of a given substring in a target string.
* This function finds the last occurrence of the given substring in the target
* using the lstindxoffrm function, which searches for the last occurrence of a
* character in the target string. The function then returns the index of the la
* occurrence of the substring in the target string, or -1 if the substring is n
ot found.
* @param x0: Address of the target string to search.
* @param x1: Address of the substring to find in the target string.
* @return x0: Integer index of the last occurrence of the substring in the targ
et string,
               or -1 if the substring is not found.
* Registers used: x0, x1, x2, lr
* Registers saved: none
.text
.global lstindxof
   lstindxof:
        // Save the return address on the stack
        str lr, [sp, #-16]!
        // Save the parameters on the stack
        stp x0, x1, [sp, \#-16]!
        // Call the length function to get the length of the target string
        bl length
        // Save the length of the target string in x2
        mov x2, x0
        // Restore the parameters from the stack
        ldp x0, x1, [sp], #16
        // Call the lstindxoffrm function to find the last occurrence of the sub
string in the target string
        bl lstindxoffrm
        // Restore the return address from the stack
        ldr lr, [sp], #16
        // Return the index of the last occurrence of the substring in the targe
t string
        ret
```