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indxof.s
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/**
* indxof - Returns the index of the first occurrence of character ch in a given
String.
^{\star} This function searches for the first occurrence of the specified character ch
in the target
* string and returns the index of the first occurrence of the character ch in t
he target string.
* The search starts from the beginning of the target string. If the character c
h is not found
* in the target string, the function returns -1.
\star @param x0: address of the target string to search.
* @param x1: Character to find in the target string.
* @return x0: Integer index of the first occurrence of character ch in the targ
et string.
               If the character is not found, returns -1.
* Registers used: x0, x1, x2, lr
* Registers saved: none
.text
.global indxof
   indxof:
        // Save the return address on the stack
        str lr, [sp, #-16]!
        // Set the search starting index to -1
        mov x2, \#-1
        // Call the 'indxoffrm' subroutine to find the index of the first occurr
ence of the character
        // starting from index 0.
       bl indxoffrm
        // Restore the return address and return the result in x0
        ldr lr, [sp], #16
        ret
```