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<pre> /** * lstindxoffrm - Returns the last occurrence of character ch in the given String. * * This function searches for the last occurrence of the specified character ch in the target * string starting from the specified index "fromIndex" and working backwards. The function * returns the index of the last occurrence of the character ch in the target string after * the specified index "fromIndex". The search starts from the index x2 in the target string, * where x2 is the specified index "fromIndex". The function returns -1 if the character ch * is not found in the target string. * * @param x0: Address of the target string to search. * @param x1: Char to find in the target string * @param x2: Index to start the search at * @return x0: Index of the last occurrence of character ch in the target string after the * specified index "fromIndex". If the character is not found, return -1. * * Registers used: x0, x1, x2, w3 * Registers saved: none */ .text .global lstindxoffrm lstindxoffrm: // Change the last index to a pointer add x2, x2, x0 sub x2, x2, #1 loop: // Compare the current index with the starting index cmp x2, x0 // If the current index is less than the starting index, then the character was not found b.lt error // Load the byte at the current index ldrb w3, [x2], #-1 // Compare the byte with the search character cmp w3, w1 // If the byte matches the search character, then the character was found b.eq found // If the byte does not match the search character, then continue searching backwards b loop found: // Add 1 to the index of the found character to get the last occurrence add x2, x2, #1 // Calculate the index of the last occurrence relative to the start of t </pre>		

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<pre> the string sub x0, x2, x0 // Subtract 1 to convert from 1-based indexing to 0-based indexing sub x0, x0, #1 ret error: // Character not found, return -1 mov x0, #-1 ret </pre>		