

PPWC Daily Practice

Date:01/11/2024

1. Program to find the length of a string using recursion.

Code Logic and Explanation (Shortened)

1. Setup:

- a. 'MAX' is set to 100, defining the max string length.
- b. 'NIL' is defined as "\0", marking the end of a string.

2. Recursive Function 'findlength()':

- a. Base Case: If the current character is 'NIL', return '0' (end of string).
- b. Recursive Case: Otherwise, return '1 + findlength(s + 1)':
- c. Adds '1' for the current character and recursively counts the remaining string.

3. Main Function:

- a. Prompts the user to enter a string.
- b. Reads the input (including spaces) into 'b'.
- c. Calls 'findlength(b)' to calculate the string length.
- d. Prints the resulting length.