

ChatGPT

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String Manipulation Exercises

String Manipulation Exercise

String Manipulation Exercises R

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I'm a student learning the R programming language. I would like to get some programming exercises. I'm not good with string manipulations. Please generate a task that I can use to practice. Don't provide the solution.

Here's a string manipulation exercise to help you practice your R programming skills:

Task: Analyze and Manipulate a Sentence

1. **Input:** Write a function called `analyze_sentence()` that takes a single string as input. The string will be a sentence with multiple words, where words are separated by spaces. For example: `"R programming is fun and powerful"`.
2. **Requirements:**
 - Count Words:** The function should return the total number of words in the sentence.
 - Reverse Words:** Reverse the order of the words in the sentence and return the reversed sentence.
 - Character Frequency:** Calculate the frequency of each character (case-insensitive) in the sentence and return it as a list. Ignore spaces.
 - Find Longest Word:** Identify the longest word in the sentence. If there are multiple words with the same length, return the first one.
 - Replace Vowels:** Replace all vowels (`a`, `e`, `i`, `o`, `u`) in the sentence with asterisks `*` and return the modified sentence.
3. **Example:**
 - For the input string `"R programming is fun and powerful"`, the function should:
 - Count the total number of words: `6`
 - Return the reversed sentence: `"powerful and fun is programming R"`
 - Return the character frequency list: `{'r': 5, 'o': 2, 'g': 2, 'a': 2, 'm': 3, 'i': 3, 'n': 3, 'p': 1, 's': 1, 'f': 1, 'u': 2, 'l': 1, 'd': 1, 'w': 1}`
 - Identify the longest word: `"programming"`
 - Return the modified sentence with vowels replaced: `"R pr*gr*mm*ng *s f*n *nd p*w*r*f*1"`

Notes:

- The function should be able to handle different cases (uppercase and lowercase) effectively.
- You may assume that the input will always be a single sentence with no punctuation other than spaces.

This task will help you practice a variety of string manipulation techniques in R, such as splitting strings, looping through characters, using conditional statements, and more. Good luck!

Sende eine Nachricht an ChatGPT

ChatGPT kann Fehler machen. Überprüfe wichtige Informationen.