

ChatGPT

GPTs erkunden

Heute

String Manipulation Exercises

String Manipulation Exercise

String Manipulation Exercises R

Juli

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Mit einem Teamarbeit...

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 programming exercise that you can use to practice string manipulation in R:

Exercise: Analyzing and Manipulating Strings in a Text Document

Problem Statement:

You are given a block of text (a paragraph or a few sentences) as a string. Your task is to analyze and manipulate this string using various string functions in R. You need to perform the following operations:

- Word Count:** Write a function to count the total number of words in the text.
- Character Frequency:** Create a function that calculates the frequency of each character (excluding spaces and punctuation) in the text. The function should return a list or a vector with the characters as names and their corresponding counts.
- Word Occurrence:** Write a function to find the number of occurrences of a specific word within the text. The function should take the text and the word as arguments.
- Sentence Splitting:** Split the text into sentences. Consider a sentence to end with a period (.), exclamation mark (!), or question mark (?).
- Reverse Words:** Create a function that takes the text and returns it with the order of the words reversed.
- Title Case:** Write a function to convert the text into title case, where the first letter of each word is capitalized.
- Remove Vowels:** Write a function that removes all vowels (a, e, i, o, u) from the text.

Sample Input:

```
R Code kopieren
text <- "R is a programming language and free software environment for statistical computing and graphics supported by the R Foundation for Statistical Computing."
```

Expected Outputs:

- Word Count:** An integer representing the total number of words.
- Character Frequency:** A list or vector showing each character and its frequency.
- Word Occurrence:** The number of times a specific word appears in the text.
- Sentence Splitting:** A vector of sentences.
- Reverse Words:** The text with the words in reverse order.
- Title Case:** The text in title case.
- Remove Vowels:** The text with all vowels removed.

This exercise will help you practice various string manipulation techniques, including counting, searching, splitting, and modifying strings in R. Good luck!

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🗣️ Sende eine Nachricht an ChatGPT

ChatGPT kann Fehler machen. Überprüfe wichtige Informationen.