

## Copilot

Sure, I'd be happy to help you practice string manipulations in R! Here's a task for you:

### Task: String Manipulation in R

**Objective:** Write a function in R that takes a vector of strings and performs the following operations:

1. Convert all strings to lowercase.
2. Remove any leading or trailing whitespace.
3. Replace all instances of the word "data" with "information".
4. Extract the first 5 characters of each string.
5. Concatenate all the modified strings into a single string, separated by a comma.

#### Example Input:

```
c(" Data Science ", "R Programming", "Data Analysis", " Big Data ")
```

#### Expected Output:

```
"info, r pro, info, big d"
```

#### Instructions:

1. Create a function named `manipulate_strings` that takes a vector of strings as input.
2. Implement the steps mentioned in the objective within the function.
3. Test your function with the example input provided.

Good luck with your practice! If you have any questions or need further assistance, feel free to ask. 😊