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String Manipulation Exercises

String Manipulation Exercise
String Manipulation Exercises R ...

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Neuer Chat

I'm a student learning the R programming language. I would like to get some programming excercises.
 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 for you to practice your R programming skills:

Exercise: String Parsing and Transformation

You are given a vector of strings where each string is formatted as follows:



Task 1: Extract Information

- Write a function called "extract_info" that takes a string in the above format as input and returns a list with three elements: "name", "age", and "occupation".
 - Example Input: "Name: John Doe, Age: 25, Occupation: Engineer"
 - Example Output: `list(name = "John Doe", age = 25, occupation = "Engineer")`

Task 2: Convert Data to a Data Frame

- Assume you have a vector of such strings. Write a function called 'parse_strings' that takes this vector and returns a data frame where each row corresponds to the information extracted from one string.
 - Example Input:

Example Output:

```
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name age occupation

1 John Doe 25 Engineer

2 Jane Smith 30 Doctor
```

Task 3: Data Cleaning

- Modify your `parse_strings` function to handle cases where the strings might have extra spaces or inconsistent formatting (e.g., multiple spaces between words, different capitalization).
 Ensure that the output data frame is clean and consistent.
 - Example Input:

• Example Output:

```
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name age occupation

1 John Doe 25 Engineer

2 Jane Smith 30 Doctor
```

Task 4: Advanced Parsing (Optional)

- Extend your 'parse_strings' function to handle additional attributes in the string (e.g.,
 'Location', 'Salary') if they exist. The function should still work correctly even if these
 additional attributes are missing.
 - Example Input:

```
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C("Name: John Doe, Age: 25, Occupation: Engineer, Location: New York, Salary: 756
"Name: Jane Smith, Age: 30, Occupation: Doctor")
```

Example Output:

Task 5: Data Analysis (Optional)

Using the data frame generated from the previous tasks, write a function to perform a simple analysis:



- Find the average age of people in the data frame.
- List the most common occupation.
- (Optional) Calculate the total salary of all individuals (if salary data is available).

This exercise should help you get more comfortable with string manipulation in R and give you practice with regular expressions, list operations, and data frame manipulations.

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