

ChatGPT

88 GPTs erkunden

Heute

R Programming Exercises

Easy R Programming Tasks ...

Easy R Programming Tasks

Juli

Bedürfnisse in der Karriere

Al in Education Research Paper

Mai

Hectic Meeting with Youngsters

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Stay in Bari!

StratDiag & Tech: Structuring

New Apollo Software Packages

Dictionary Encoding in Databases

April

Committees Relevant in Ambition.

Update Dictionary and Vectors

SQL CRUD with Dictionary-Encodir

Neuer Chat

Exercises with a specified skill level I'm a student learning the R programming language. I would like to get some programming excercises. Please create 5 programming tasks without providing the solution. The difficulty level for the tasks should be easy.

Here are five easy-level programming exercises in R to help you practice and improve your skills:

1. Basic Arithmetic Operations

Write an R script that asks the user for two numbers, performs the four basic arithmetic operations (addition, subtraction, multiplication, and division), and then prints the results.

Tasks:

- Prompt the user for two numeric inputs.
- · Perform addition, subtraction, multiplication, and division.
- · Display the results clearly.

2. Vector Operations

Create a vector containing the numbers 1 through 10. Write an R script to:

- · Compute the sum, mean, and standard deviation of the vector.
- . Create a new vector that contains the squares of each element in the original vector.
- Print both the original and new vectors.

Tasks:

- · Use basic vector operations to compute the required statistics.
- · Use vectorized operations to create the new vector.

3. Simple Data Frame Manipulation

Create a data frame in R with two columns: "Name" (character) and "Age" (numeric). Populate the data frame with at least 5 entries. Write a script to:

- Add a new column "Age Group" to categorize the ages into "Child" (Age < 13), "Teen" (13 <= Age < 20), and "Adult" (Age >= 20).
- Filter the data frame to only include "Adults".
- Print the modified data frame.

Tasks:

- Use `ifelse` or similar functions for age categorization.
- Use filtering techniques to subset the data frame.

4. Factor Levels

Create a factor in R representing the days of the week. Write a script that:

- Converts the factor to ordered based on the typical order of the week.
- Extracts and prints the levels of the factor.
- Checks if "Wednesday" is a level in the factor.

Tasks:

- Use the `factor()` function with the `levels` and `ordered` arguments.
- Use the `levels()` function to manipulate and print factor levels.

5. Random Number Generation

Write an R script to generate 100 random numbers between 1 and 1000. Then:

- Find and print the maximum, minimum, and median of the numbers.
- Count how many of these numbers are even and how many are odd.
- Print the first 10 numbers in the list.

Tasks:

- Use `runif()` or `sample()` to generate random numbers.
- Use `max()`, `min()`, and `median()` for statistics.
- Use loops or vectorized operations to count even and odd numbers.

These exercises should help you get comfortable with basic R programming concepts. Good luck!

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