


Exercises with a specified skill level
I'm a student learning the R programming language. I would like to get some programming exercises.
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 for you to practice:

1. Basic Arithmetic Operations


- Task: Write a function `basic_arithmetic` that takes two numbers as input and returns a list containing their sum, difference, product, and quotient.
- Example:

```
r  Code kopieren

basic_arithmetic(10, 2)
# Expected Output: list(sum = 12, difference = 8, product = 20, quotient = 5)
```

2. Vector Operations

- Task: Create a function `vector_operations` that takes a numeric vector as input and returns the mean, median, and standard deviation of the elements in the vector.
- Example:

```
r  Code kopieren

vector_operations(c(1, 2, 3, 4, 5))
# Expected Output: list(mean = 3, median = 3, sd = 1.58)
```

3. Factorial Calculation


- Task: Write a function `calculate_factorial` that calculates the factorial of a given positive integer using a loop (do not use the `factorial` function).
- Example:

```
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calculate_factorial(5)
# Expected Output: 120
```

4. Counting Even and Odd Numbers

- Task: Create a function `count_even_odd` that takes a numeric vector as input and returns the count of even and odd numbers in the vector.
- Example:

```
r  Code kopieren

count_even_odd(c(1, 2, 3, 4, 5))
# Expected Output: list(even = 2, odd = 3)
```

5. String Reversal

- Task: Write a function `reverse_string` that takes a string as input and returns the string reversed.
- Example:

```
r  Code kopieren

reverse_string("hello")
# Expected Output: "olleh"
```

These exercises should help you get more comfortable with basic R programming concepts.



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