

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 5 easy-level programming tasks to help you practice your R programming skills:

### Task 1: Basic Arithmetic Operations

Write a function in R that takes two numeric inputs and returns a list containing the sum, difference, product, and quotient of the two numbers.

Example:

```
r
# Input
basic_operations(10, 2)

# Expected Output
# $sum: 12
# $difference: 8
# $product: 20
# $quotient: 5
```

### Task 2: Generate a Sequence

Write a function that takes two numbers as input: a start and an end number. The function should return a vector containing a sequence of numbers from the start to the end number, incremented by 1.

Example:

```
r
# Input
generate_sequence(1, 10)

# Expected Output
# [1] 1 2 3 4 5 6 7 8 9 10
```

### Task 3: Sum of Even Numbers

Create a function that takes a numeric vector as input and returns the sum of all even numbers in that vector.

Example:

```
r
# Input
sum_even_numbers(c(1, 2, 3, 4, 5, 6))

# Expected Output
# [1] 12
```

### Task 4: Count Vowels in a String

Write a function that takes a string as input and returns the number of vowels (a, e, i, o, u) present in the string. The function should be case-insensitive.

Example:

```
r
# Input
count_vowels("Hello world")

# Expected Output
# [1] 3
```

### Task 5: Reverse a String

Create a function that takes a string as input and returns the string in reverse order.

Example:

```
r
# Input
reverse_string("R Programming")

# Expected Output
# [1] "gnimargorP R"
```

These tasks should help you get comfortable with basic operations, sequence generation, and string manipulation in R.

conditionals, and string manipulation in R. Good luck with your practice!

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