



Hectic Meeting with Youngsters

Masterarbeitsthema Diskussion Ter Stay in Bari!

StratDiag & Tech: Structuring New Apollo Software Packages

Dictionary Encoding in Databases

Committees Relevant in Ambition.

Update Dictionary and Vectors

SQL CRUD with Dictionary-Encodir

Team-Arbeitsbereich

hinzufügen

Neuer Chat

Consider the following programming problem:

Given a positive integer N. Calculate the Fibonacci series till the number N. If N is a part of the series, include N as well.

Please provide a solution for this problem in the R language.

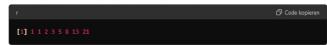
Certainly! Below is an R solution for generating the Fibonacci series up to a given positive integer N, including N if it is part of the series.

```
# Function to generate Fibonacci series up to N
fibonacci_upto_n <- function(N) {</pre>
 if (N < 1) {
  fib_series <- c(0, 1)
   next_fib <- tail(fib_series, 1) + tail(fib_series, 2)[1]</pre>
   if (next_fib > N) {
   fib_series <- c(fib_series, next_fib)
  # Remove the initial 0 if the user only expects positive numbers
  fib_series <- fib_series[fib_series > 0]
  return(fib_series)
fibonacci_upto_n(N)
```

- Initialization: The Fibonacci series is initialized with the first two numbers, `0` and `1`.
- . Looping: The loop continues generating the next Fibonacci number by adding the last two numbers in the current series.
- $\bullet \quad \text{Termination: The loop breaks once the next Fibonacci number would exceed N.}$
- ullet Final Output: The function returns the Fibonacci series up to N, including N if it is part of the series.

Example:

If you run the code with `N \leftarrow 21`, the function will return:



This includes the Fibonacci numbers up to 21, with 21 included because it is part of the series.

⊕ □ □ □ □ □ □ ▼ ∨

Sende eine Nachricht an ChatGPT

ChatGPT kann Fehler machen. Überprüfe wichtige Informationer