

 ChatGPT 88 GPTs erkunden Fibonacci Series in R

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Please consider this 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.

Provide an example solution for the problem in the R language.

Here's an example solution to the problem in the R language:

```
Code kopieren
fibonacci_series <- function(N) {</pre>
  fib <- c(0, 1)
   next_fib <- sum(tail(fib, 2))</pre>
   if (next_fib > N) {
   fib <- c(fib, next_fib)
  if (N > tail(fib, 1)) {
   fib <- c(fib, N)
  return(fib)
fibonacci_series(N)
```

## Explanation:

- 1. Initialization: The function starts by initializing the first two numbers in the Fibonacci sequence ('e' and '1').
- 2. While loop: The loop generates the next Fibonacci number by summing the last two numbers in the current sequence. It continues adding numbers to the sequence until the next number would be greater than `N`.
- 3. Include N: If `N` is greater than the last Fibonacci number calculated and `N` itself isn't a Fibonacci number, it is added to the series.
- 4. Return: The function returns the Fibonacci series up to and including `N`.

## **Example Output:**

For `N = 21', the function will return:

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Team-Arbeitsbereich hinzufügen

ChatGPT kann Fehler machen. Überprüfe wichtige Informationen.