

ChatGPT 4o

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Heute

Fibonacci Series in R

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Certainly! Here's an example solution in R to generate the Fibonacci series up to a given number  $N$ , including  $N$  if it is a part of the series:

```
# Function to generate Fibonacci series up to N
fibonacci_series <- function(N) {
  # Initialize the first two Fibonacci numbers
  fib <- c(0, 1)

  # Continue generating Fibonacci numbers until the next number exceeds N
  while(TRUE) {
    next_fib <- sum(tail(fib, 2)) # Calculate the next Fibonacci number
    if (next_fib > N) {
      break # Stop if the next number exceeds N
    }
    fib <- c(fib, next_fib) # Append the next Fibonacci number to the series
  }

  # Return the Fibonacci series up to N
  return(fib)
}

# Example usage
N <- 21
result <- fibonacci_series(N)
print(result)
```

#### Explanation:

- Initialize:** The series starts with the first two Fibonacci numbers, 0 and 1.
- Generate the series:** We continuously calculate the next Fibonacci number by summing the last two numbers in the series. If the next Fibonacci number exceeds  $N$ , the loop breaks.
- Result:** The function returns the Fibonacci series up to  $N$ .

#### Example Output:

For  $N = 21$ , the output would be:

```
csharp
[1] 0 1 1 2 3 5 8 13 21
```

This includes 21 since it is part of the Fibonacci series.

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Ist dieses Gespräch bislang hilfreich? 👍 🗑️ ✕

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