

 ChatGPT 88 GPTs erkunden Fibonacci Series Calculation

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Fibonacci Series Calculation

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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 Python language.

Certainly! Here's a Python function that generates the Fibonacci series up to a given positive integer N. If N is part of the Fibonacci series, it will include N in the output:

```
def fibonacci_series_till_n(N):
    # Initialize the first two Fibonacci numbers
    fib_series = [0, 1]
        next_fib = fib_series[-1] + fib_series[-2]
        if next_fib > N:
        fib_series.append(next_fib)
        fib_series = fib_series[1:]
    return fib_series
N = 21
result = fibonacci_series_till_n(N)
print("Fibonacci series up to", N, ":", result)
```

## Explanation:

- 1. Initialization:
  - The Fibonacci series starts with `[0, 1]`.
- 2. While Loop:
  - . We continue to generate the next Fibonacci number by adding the last two numbers in the
  - ullet We stop the loop when the next Fibonacci number exceeds N.
- 3. Return the Series:
  - ullet The function returns the list of Fibonacci numbers that are less than or equal to N.

## **Example Output:**

For N=21, the function will output:

```
Code kopierer
Fibonacci series up to 21 : [0, 1, 1, 2, 3, 5, 8, 13, 21]
```

This code includes N if it is part of the Fibonacci sequence and stops the series generation at the point where the next Fibonacci number would exceed N.

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