

ChatGPT 88 GPTs erkunden

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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 is a Python solution to generate the Fibonacci series up to a given positive integer `N`. If `N` is part of the series, it will be included.

```
def fibonacci_series_upto_n(N):
    # Initializing the first two Fibonacci numbers
    fib_series = [0, 1]
    # Continue generating Fibonacci numbers until the last number is greater than or equal
        next_fib = fib_series[-1] + fib_series[-2]
        if next_fib > N:
        fib_series.append(next_fib)
       return [0]
       return [0, 1]
       return [num for num in fib_series if num <= N]</pre>
# Example usage:
result = fibonacci_series_upto_n(N)
print("Fibonacci series up to", N, ":", result)
```

How the code works:

- 1. Initialization: Start with the first two numbers in the Fibonacci series: 0 and 1.
- 2. Generating the series:
 - Continue generating the next Fibonacci number by summing the last two numbers in the
 - If the next number exceeds `N`, stop the loop.

3. Filtering:

- For `N = 0`, the function returns `[0]`.
- For `N = 1`, the function returns `[0, 1]`.
- For other values of `N`, the function filters the series to include only numbers less than or
- 4. Output: The function returns the Fibonacci series up to `N` (inclusive, if `N` is part of the series).

Example:

If `N = 21', the output will be:

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

This code works efficiently for any positive integer `N` and ensures that `N` is included if it's a part of the Fibonacci series.

```
# D C B P ★∨
```

Team-Arbeitsbereich hinzufügen

 $oldsymbol{\emptyset}$ Sende eine Nachricht an ChatGPT

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