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Fibonacci Series Calculation

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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 Python language.

Certainly! The Fibonacci series is a sequence of numbers where each number is the sum of the two preceding ones, usually starting with 0 and 1. Here's a Python function to generate the Fibonacci series up to a given number N, including N if it is part of the series.

Explanation:

- We start with a list `fib_series` containing the first two Fibonacci numbers `[0, 1]`.
- We then enter a loop where we calculate the next Fibonacci number by adding the last two numbers in the series.
- If the next Fibonacci number exceeds N, we exit the loop.
- If the next Fibonacci number is less than or equal to N, it is appended to the list.
- \bullet $\;$ Finally, the list containing the Fibonacci sequence up to N is returned.

Example Output:

For N=21:

In this example, since 21 is part of the Fibonacci series, it is included in the output.

Team-Arbeitsbereich hinzufügen

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