

ChatGPT 4o

ChatGPT

GPTs erkunden

Heute

Fibonacci Series Calculation

Juli

Bedürfnisse in der Karriere

AI in Education Research Paper

Mai

Hectic Meeting with Youngsters

Masterarbeitsthema Diskussion Teil

Stay in Bari!

StratDiag & Tech: Structuring

New Apollo Software Packages

Dictionary Encoding in Databases

April

Committees Relevant in Ambition

Update Dictionary and Vectors

SQL CRUD with Dictionary-Encoding

Neuer Chat

Team-Arbeitsbereich hinzufügen

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Here's a Python solution to calculate the Fibonacci series up to a given number N , including N if it is part of the series:

```
python Code kopieren

def fibonacci_series_upto_n(N):
    # Initialize the first two Fibonacci numbers
    fib_series = [0, 1]

    # Generate the Fibonacci series until the next number exceeds N
    while True:
        next_fib = fib_series[-1] + fib_series[-2]
        if next_fib > N:
            break
        fib_series.append(next_fib)

    return fib_series

# Example usage:
N = 21
result = fibonacci_series_upto_n(N)
print(f"Fibonacci series up to {N}: {result}")
```

Explanation:

- We start by initializing the first two Fibonacci numbers: `0` and `1`.
- We then use a loop to generate the next Fibonacci number by summing the last two numbers in the series.
- The loop continues until the next Fibonacci number exceeds N .
- If the generated Fibonacci number is less than or equal to N , it is appended to the series.
- The function returns the Fibonacci series up to N .

Example:

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

```
css Code kopieren

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

This output includes the number 21 as it is part of the Fibonacci series.



Ist dieses Gespräch bislang hilfreich?



Sende eine Nachricht an ChatGPT



ChatGPT kann Fehler machen. Überprüfe wichtige Informationen.

