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Count Divisors Divisible by 3

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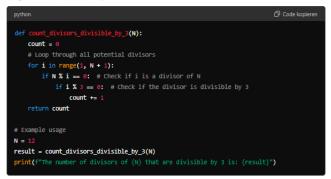
Neuer Chat

Consider the following programming problem:

Given an integer N, find the number of divisors of N that are divisible

Please provide a solution for this problem in the Python language.

Certainly! Here's a Python function that solves the problem of finding the number of divisors of an integer `N` that are divisible by 3.



## How It Works:

- 1. The function `count\_divisors\_divisible\_by\_3` takes an integer `N` as input.
- 2. It initializes a counter `count` to zero.
- 3. The function then loops through all integers from 1 to `N`.
- 4. For each integer `i`, it checks if `i` is a divisor of `N` (i.e., `N % i == 0`).
- 5. If `i` is a divisor and is also divisible by 3 (i.e., `i % 3 == 0`), it increments the `count`.
- 6. After the loop, the function returns the count of such divisors.

## Example:

For `N = 12`, the divisors are 1, 2, 3, 4, 6, and 12. Among these, 3, 6, and 12 are divisible by 3. So, the output will be 3.

## Output:

The function will print:



This function should work efficiently for moderate values of `N`. For very large values of `N`, further optimizations might be necessary.

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Team-Arbeitsbereich hinzufügen

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