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Divisors Divisible by 3

Counting Divisors Divisible by 3

Count Divisors Divisible by 3 ...

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Please consider this programming problem:

Given an integer N, find the number of divisors of N that are divisible by 3.

Provide an example solution for the problem in the Python language.

Certainly! Let's walk through the solution to the problem.

### Problem Breakdown

Given an integer N, we need to find the number of divisors of N that are divisible by 3.

# Steps to Solve the Problem:

- 1. Find the divisors of N: A divisor of N is any integer d such that N%d=0.
- 2. Check if the divisor is divisible by 3: Once you have a divisor, check if it is divisible by 3 by checking d%3=0.
- 3. Count the divisors that satisfy the above condition.

# Python Code Implementation

Here is how you can implement the solution in Python:

# **Example Explanation:**

Let's consider N=12:

- 1. Divisors of 12: The divisors are 1, 2, 3, 4, 6, 12.
- 2. Divisors divisible by 3: Among these divisors, the ones divisible by 3 are 3, 6, and 12.
- 3. Count: There are 3 such divisors.

So, the output of the program will be:

```
csharp

① Code kopieren

The number of divisors of 12 that are divisible by 3 is: 3
```

### Conclusion:

This solution iterates through all potential divisors of N and counts how many of them are divisible by 3. The time complexity of this solution is O(N), which is efficient for relatively small values of N.

# D C B P ★~

Team-Arbeitsbereich hinzufügen

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