

 ChatGPT 88 GPTs erkunden

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Divisors Divisible by 3 Counting Divisors Divisible by 3 ...

Count Divisors Divisible by 3

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Committees Relevant in Ambition. Update Dictionary and Vectors SQL CRUD with Dictionary-Encodir 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.

- lacktriangledown To solve this problem, we can iterate through all the divisors of a given integer N and count how many of them are divisible by 3. Here's a step-by-step approach:
  - 1. Identify Divisors: A divisor of N is any integer d such that N%d == 0.
  - 2. Check Divisibility by 3: For each divisor d, check if d%3==0. If true, increment a counter.
  - 3. Output the Counter: The final value of the counter will give the number of divisors of  ${\cal N}$  that are divisible by 3.

## Example Solution in Python:

```
if i % 3 == 0: # i is divisible by 3
          count += 1
  return count
result = count_divisors_divisible_by_3(N)
```

- Loop from 1 to N: We iterate through each number from 1 to N to check if it is a divisor.
- Check Divisibility: If i divides N without leaving a remainder, and i is divisible by 3, we increment the count.
- Return the Count: After finishing the loop, the count will contain the number of divisors of  ${\cal N}$ that are divisible by 3.

## Example Run:

For N=18, the divisors are [1, 2, 3, 6, 9, 18]. Among these, [3, 6, 9, 18] are divisible by 3. Hence, the function will return 4.

When you run the code with N=18, the output will be:



Team-Arbeitsbereich hinzufügen

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