

Copilot

Sure, I can help with that! Let's use Python as the programming language for this example. Here's a solution to find the number of divisors of an integer (N) that are divisible by 3:

```
def count_divisors_divisible_by_3(N):  
    count = 0  
    for i in range(1, N + 1):  
        if N % i == 0 and i % 3 == 0:  
            count += 1  
    return count
```

Example usage:

$N = 18$

```
print(f"The number of divisors of {N} that are divisible by 3 is: {count_divisors_divisible_by_3(N)}")
```

In this example, the function `count_divisors_divisible_by_3` iterates through all numbers from 1 to (N). It checks if a number is a divisor of (N) and if it is divisible by 3. If both conditions are met, it increments the count. Finally, it returns the count.

For ($N = 18$), the divisors of 18 that are divisible by 3 are 3, 6, and 9. So, the output will be:

The number of divisors of 18 that are divisible by 3 is: 3

Feel free to ask if you have any questions or need further assistance!