

 ChatGPT 88 GPTs erkunden

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Counting Divisors Divisible by 3

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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

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

Certainly! Here's an example solution in R that finds the number of divisors of an integer `N` that are divisible by 3:

```
count_divisors_divisible_by_3 <- function(N) {</pre>
  count <- 0
  for (i in 1:N) {
    # Check if 'i' is a divisor of N and if it's divisible by 3 if (N XX i == 0 && i XX 3 == 0) {
      count <- count + 1
  return(count)
# Example usage:
N <- 36
result <- count_divisors_divisible_by_3(N)
cat("Number of divisors of", N, "that are divisible by 3:", result, "\n")
```

Explanation:

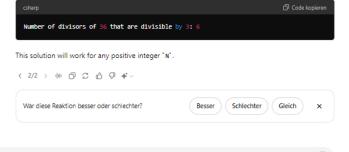
- 1. The function `count_divisors_divisible_by_3` takes an integer `N` as input.
- 2. We initialize a counter `count` to zero.
- 3. We loop through all numbers from 1 to `N` and check two conditions:
 - If the current number `i` is a divisor of `N` (i.e., `N %% i == 0`).
 - If `i` is divisible by 3 (i.e., `i %% 3 == 0`).
- 4. If both conditions are met, we increment the counter.
- 5. Finally, we return the count.

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Example:

For N = 36, the divisors of 36 are 1, 2, 3, 4, 6, 9, 12, 18, 36. Among these, the numbers divisible by 3 are 3, 6, 9, 12, 18, and 36. So, the function will return 6.

When you run the code with `N <- 36`, the output will be:



Team-Arbeitsbereich hinzufügen

ChatGPT kann Fehler machen. Überprüfe wichtige Informationen