

ChatGPT 4o

ChatGPT

GPTs erkunden

Heute

Counting Divisors Divisible by 3

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Count Divisors Divisible by 3

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Mit einem Teamtarif...

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 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:

```
r
# Function to count divisors of N that are divisible by 3
count_divisors_divisible_by_3 <- function(N) {
  count <- 0

  # Loop through all numbers from 1 to N
  for (i in 1:N) {
    # Check if 'i' is a divisor of N and if it's divisible by 3
    if (N %% i == 0 && i %% 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:

- The function 'count_divisors_divisible_by_3' takes an integer 'N' as input.
- We initialize a counter 'count' to zero.
- 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').
- If both conditions are met, we increment the counter.
- Finally, we return the count.

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:

```
csharp
Number of divisors of 36 that are divisible by 3: 6
```

This solution will work for any positive integer 'N'.

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War diese Reaktion besser oder schlechter?

Besser

Schlechter

Gleich

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📎 Sende eine Nachricht an ChatGPT

ChatGPT kann Fehler machen. Überprüfe wichtige Informationen.

