

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.

Vorschläge anzeigen ▾



Code-Snippet

```
# Function to count divisors divisible by 3
count_divisors_divisible_by_3 <- function(N) {
  # Initialize a counter
  count <- 0

  # Iterate through all possible divisors from 1 to N
  for (i in 1:N) {
    # Check if i is a divisor of N and divisible by 3
    if (N %% i == 0 && i %% 3 == 0) {
      count <- count + 1
    }
  }

  # Return the count
  return(count)
}

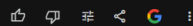
# Example usage
N <- 27
result <- count_divisors_divisible_by_3(N)
print(result) # Output: 3
```

Verwende den Code [mit Vorsicht](#).



This R code defines a function `count_divisors_divisible_by_3()` that takes an integer N as input. It iterates through all possible divisors of N from 1 to N and checks if each divisor is divisible by 3. If a divisor meets both conditions, it increments a counter. Finally, the function returns the total count of divisors divisible by 3.

In the example usage, the function is called with $N = 27$, and the result is printed, which is 3. This indicates that there are 3 divisors of 27 that are divisible by 3: 3, 9, and 27.



Prompt hier eingeben



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