



Counting Divisors Divisible by 3

Divisors Divisible by 3

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Consider the following programming problem:

Given an integer N, find the number of divisors of N that are divisible by 3.

Please provide a solution for this problem in the R language.

lacktriangledown To solve the problem of finding the number of divisors of a given integer N that are divisible by 3 in R, you can follow these steps:

- 1. Find all divisors of N.
- 2. Count how many of these divisors are divisible by 3.

Here's an R function that implements this logic:

```
Code kopierer
count_divisors_divisible_by_3 <- function(N) {</pre>
 count <- 0
  for (i in 1:N) {
  if (N %% i == 0 && i %% 3 == 0) {
     count <- count + 1
  return(count)
# Example usage:
N <- 36
result <- count_divisors_divisible_by_3(N)
print(paste("Number of divisors of", N, "that are divisible by 3:", result))
```

## Explanation:

- The function `count\_divisors\_divisible\_by\_3` takes an integer `N` as input.
- It initializes a counter `count` to 0.
- The `for` loop iterates over all integers from 1 to N to check if each integer is a divisor of N.
- If the integer i is a divisor of N (`N % i == 0`) and is divisible by 3 (`i % 3 == 0`), the
- Finally, the function returns the count of such divisors.

## Example:

For N=36:

- Divisors of 36: 1, 2, 3, 4, 6, 9, 12, 18, 36
- Divisors divisible by 3: 3, 6, 9, 12, 18, 36

So, the output will be 6.

You can replace `N <- 36` with any integer to find the number of divisors divisible by 3 for that specific number.

# 0 C 6 7 ★~

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