

88 GPTs erkunden Counting Divisors Divisible by 3

ChatGPT

Counting Divisors by 3 Count Divisors Divisible by 3

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Committees Relevant in Ambition. Update Dictionary and Vectors SQL CRUD with Dictionary-Encodir 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.

Here's an example solution in R to solve the problem of finding the number of divisors of an integer `N` that are divisible by 3:

```
count_divisors_divisible_by_3 <- function(N) {</pre>
 count <- 0
 \mbox{\#} Loop through all numbers from 1 to N
   if (N %% i == 0 && i %% 3 == 0) {
     count <- count + 1
  return(count)
# Example usage
N <- 18
result <- count_divisors_divisible_by_3(N)
cat("Number of divisors of", N, "that are divisible by 3 is:", result, "\n")
```

Explanation:

- 1. Function Definition: The function `count_divisors_divisible_by_3` takes an integer `N` as
- 2. Initialization: We initialize a counter `count` to zero to keep track of the number of valid
- 3. Loop: We loop through all integers from 1 to `N`. For each integer `i`, we check two conditions:
 - `N %% i == 0`: This checks if `i` is a divisor of `N`.
 - `i %% 3 == 0`: This checks if `i` is divisible by 3.
- 4. Increment Counter: If both conditions are met, we increment the `count`.
- 5. Return Value: After the loop finishes, we return the value of `count`.

Example:

If you run this function with N = 18, the output will be:



This is because the divisors of 18 are {1, 2, 3, 6, 9, 18}, and the divisors that are divisible by 3 are {3, 6, 9, 18}. Therefore, the count is 4.

```
# O C O P ★~
```

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