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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.

Here is an R function to solve the problem of finding the number of divisors of a given integer Nthat 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 is divisible by 3
if (N XX i == 0 && i XX 3 == 0) {
      count <- count + 1
  return(count)
N <- 12
cat("Number of divisors of", N, "that are divisible by 3:", count_divisors_divisible_by_3(N), "\n")
```

## Explanation:

- 1. The function `count\_divisors\_divisible\_by\_3` takes an integer `N` as input.
- 2. It initializes a counter `count` to 0, which will track the number of divisors that are divisible by 3.
- 3. A `for` loop runs through all numbers from 1 to `N`.
- 4. Inside the loop, it checks two conditions:
  - If `i` is a divisor of `N` (`N %% i == 0`).
  - If `i` is divisible by 3 (`i %% 3 == 0`).
- 5. If both conditions are true, the counter `count` is incremented by 1.
- 6. Finally, the function returns the value of `count`.

## Example:

For `N = 12`, the divisors of 12 are 1, 2, 3, 4, 6, and 12. Among these, the divisors that are divisible by 3 are 3, 6, and 12. Therefore, the function will return 3.

You can test the function with different values of `N` by changing the `N` variable in the example usage.

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