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I'm working on a R programming problem. The current program below is not working well. Can you help in fixing this program with as few changes as possible? Below I first provide the problem description and then the current buggy program.

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

Buggy Program:

```
find_divisors_divisible_by_3 <- function(N) {  
  count <- 0  
  for (i in 1:N) {  
    if (N %% i != 0 && i %% 3 == 0) {  
      count <- count + 1  
    }  
  }  
  return(count)  
}  
  
n <- 36  
count <- find_divisors_divisible_by_3(n)  
cat("Number of divisors of", n, "that are divisible by 3:", count, "\n")
```

Can you fix the above buggy program? Modify only the code within the function. Make sure that you make minimal possible changes needed to fix the program.

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The problem with the given code is that it checks if a number is **not** a divisor of N before checking if it is divisible by 3. This is incorrect. We should first check if a number is a divisor of N and then check if it is divisible by 3.

Here's the corrected code:

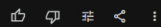
Code snippet

```
find_divisors_divisible_by_3 <- function(N) {  
  count <- 0  
  for (i in 1:N) {  
    if (N %% i == 0 && i %% 3 == 0) {  
      count <- count + 1  
    }  
  }  
  return(count)  
}
```

Use code [with caution](#).



The only change made was to replace `N %% i != 0` with `N %% i == 0`. Now, the code correctly counts the number of divisors of N that are divisible by 3.



Enter a prompt here

