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Fix R Divisor Count

Fixing R Program Bug

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Mit einem Teamtarif...

I'm working on a R programming problem. The current program below is not working well. Can you help by giving a hint? 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")
```

(1) Can you describe the bug(s) in this program and the required fixes?
(2) Can you provide a concise single-sentence hint about one bug in this program?
The hint should not be too detailed as I want to think about the fixes by myself.
However, the hint should not be too abstract, as I need some help.



(1) Bug Description and Required Fixes:

- Bug: The condition `N %% i != 0` in the `if` statement is incorrect. This checks whether `i` is not a divisor of `N`, but it should check if `i` is a divisor of `N`.
- Fix: The condition should be changed to `N %% i == 0` to correctly identify divisors of `N`.
- Additionally, you want to check if these divisors are divisible by 3, which is already correctly handled with `i %% 3 == 0`.

(2) Hint:

Ensure that you are correctly identifying divisors of `N` before checking if they are divisible by 3.



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