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Fixing GCD Function

Fixing R GCD Function

GCD Function Debugging Hint

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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 two positive integers A and B, find GCD of A and B.

Buggy Program:

```
find_gcd <- function(A, B) {  
  while (B != 0) {  
    temp <- B  
    B <- A %% B  
    A <- temp  
  }  
  
  A <- 56  
  B <- 98  
  gcd <- find_gcd(A, B)  
  cat("GCD of", A, "and", B, "is:", gcd, "\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:

The main issue in the program is that the `find_gcd` function does not return the value of the GCD after calculating it. In R, if a function does not explicitly return a value using `return()`, the function will return `NULL` by default if there is no value on the last line. Therefore, the program doesn't output the GCD, resulting in `gcd` being `NULL`.

Fixes:

- The function should include a `return(A)` statement after the loop to return the final value of `A`, which is the GCD.

(2) Hint:

Hint: Make sure your function returns the calculated GCD value.

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Ist dieses Gespräch bislang hilfreich? 👍 🗨️ ✕

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