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Fixing R GCD Function

GCD Function Debugging Hint

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ChatGPT 4o



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) Description of the Bug(s) and Required Fixes:

The main issue in your program is that the `find_gcd` function does not return any value. In R, to return a value from a function, you need to explicitly use the `return()` statement or simply place the variable at the end of the function. Without a return statement, the function will return `NULL` by default, which is why the variable `gcd` is not holding the expected result.

(2) Hint:

Ensure that your function returns the final value of `A` after the loop completes.



Sende eine Nachricht an ChatGPT



ChatGPT kann Fehler machen. Überprüfe wichtige Informationen.

