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Fixing R GCD Function

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Currently I'm working on a R programming problem. The current program below contains some bugs. Can you help in fixing these bugs with as few changes as possible? Below I first provide the problem description and then the 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")
```

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.

The issue with the provided program is that the `find_gcd` function does not return any value. To fix this, you need to ensure that the function returns the value of `A`, which will hold the GCD after the loop finishes.

Here's the corrected code with the minimal change:

```
find_gcd <- function(A, B) {  
  while (B != 0) {  
    temp <- B  
    B <- A %% B  
    A <- temp  
  }  
  return(A) # Add this line to return the GCD  
}  
  
A <- 56  
B <- 98  
gcd <- find_gcd(A, B)  
cat("GCD of", A, "and", B, "is:", gcd, "\n")
```

This change adds a `return(A)` statement to the function, which ensures that the GCD is returned correctly. The rest of the code remains the same.



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ChatGPT kann Fehler machen. Überprüfe wichtige Informationen.

