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Fixing R GCD Function

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Mit einem Teamtarif...

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 problem with the provided R code is that the `find_gcd` function does not return a value. In R, if a function doesn't explicitly return a value, it will return `NULL` by default. Therefore, when you assign the result of `find_gcd(A, B)` to the `gcd` variable, `gcd` will be `NULL`.

To fix this issue, you need to ensure that the function returns the final value of `A`, which will be the GCD after the loop completes.

Here's the corrected code:

```
r Code kopieren

find_gcd <- function(A, B) {
  while (B != 0) {
    temp <- B
    B <- A %% B
    A <- temp
  }
  return(A)
}

A <- 56
B <- 98
gcd <- find_gcd(A, B)
cat("GCD of", A, "and", B, "is:", gcd, "\n")
```

Changes made:

- Added `return(A)` at the end of the `find_gcd` function to return the final value of `A` after the loop, which is the GCD of the two numbers.

This small change fixes the program while maintaining the logic of the original implementation.