



Gemini ▾

Gemini Advanced ausprobieren



Please consider this programming problem:

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

Provide an example solution for the problem in the R language.

Vorschläge anzeigen ▾



Code-Snippet

```
# Function to calculate the Greatest Common Divisor (GCD) using Euclid's
gcd <- function(a, b) {
  while (b != 0) {
    temp <- a %% b
    a <- b
    b <- temp
  }
  return(a)
}

# Example usage
A <- 12
B <- 18
result <- gcd(A, B)
print(result) # Output: 6
```

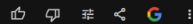
Verwende den Code [mit Vorsicht](#).

This R code defines a function `gcd` that implements Euclid's algorithm to find the GCD of two numbers. The function takes two positive integers `a` and `b` as input and returns their GCD.

The algorithm works as follows:

1. While `b` is not equal to 0:
 - Calculate the remainder of `a` divided by `b` and store it in `temp`.
 - Assign the value of `b` to `a`.
 - Assign the value of `temp` to `b`.
2. Return the value of `a`, which at this point is the GCD.

In the example usage, we set `A` to 12 and `B` to 18, then call the `gcd` function with these values. The function calculates the GCD and prints the result, which is 6 in this case.



Prompt hier eingeben

Gemini zeigt möglicherweise fehlerhafte Informationen an, z. B. zu Personen. Überprüfe daher die Antworten. [Datenschutz & Gemini-Apps](#)