

Neuer Chat

Letzte Themen

Fixing Fibonacci Function in R

Fixing Fibonacci Index Calcul...

Fixing Fibonacci Series Code I...

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Fixing Fibonacci Series Calcul...

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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 a positive integer N. Calculate the Fibonacci series till the number N. If N is a part of the series, include N as well.

Buggy Program:

```
fibonacci_index <- function(number) {  
  if (number < 0) {  
    stop("Keine gültige Fibonacci-Zahl")  
  }  
  
  index <- 1  
  fib <- 1  
  f1 <- 1  
  f2 <- 0  
  
  while (fib <= number) {  
    if (fib = number) {  
      return(index)  
    }  
    f1 <- fib  
    fib <- f1 + f2  
    f2 <- f1  
    index <- index + 1  
  }  
  
  stop("Keine gültige Fibonacci-Zahl")  
}  
  
number <- as.numeric(readline(prompt = "Bitte geben Sie eine Zahl ein: "))  
tryCatch({  
  index <- fibonacci_index(number)  
  cat("Die Zahl ist Zahl", index, "der Fibonacci-Folge.\n")  
}, error = function(e) {  
  cat(e$message, "\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.

Vorschläge anzeigen

The primary bug in the provided code lies in the condition check within the `while` loop. The line `if (fib = number)` is incorrect. It should use the comparison operator `==` instead of the assignment operator `=`.

Here's the corrected code:

Code-Snippet

```
fibonacci_index <- function(number) {  
  if (number < 0) {  
    stop("Keine gültige Fibonacci-Zahl")  
  }  
  
  index <- 1  
  fib <- 1  
  f1 <- 1  
  f2 <- 0  
  
  while (fib <= number) {  
    if (fib == number) {  
      return(index)  
    }  
    f1 <- fib  
    fib <- f1 + f2  
    f2 <- f1  
    index <- index + 1  
  }  
  
  stop("Keine gültige Fibonacci-Zahl")  
}
```

Verwende den Code mit Vorsicht.

With this correction, the program will correctly identify whether a given number is a Fibonacci number and return its index in the series.

Einstellungen

Hüttlingen, Deutschland
Basierend auf deinen Orten (Zuhause)
Standort aktualisieren

Prompt hier eingeben

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