

**o** 

J Im working on a R programming problem. The current program below is not working well. Can you help in fixing this program with as few changes as possible? Below I first provide the problem description and then the current 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
 f2 <- 0
 while (fib <= number) {
  if (fib = number) {
   return(index)
  fib <- f1 + f2
   index <- index + 1
 stop("Keine gültige Fibonacci-Zahl")
number <- as.numeric(readline(prompt = "Bitte geben Sie eine Zahl ein: "))
 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
```

Vorschläge anzeigen 🗸 🌖

The bug in the program lies in the if statement within the while loop. You should use == for comparison instead of = . The = operator is used for assignment, not

Here's the corrected code:

sure that you make minimal possible changes needed to fix the program.

```
Code-Snippet
fibonacci_index <- function(number) {
  if (number < 0) {
    stop("Keine gültige Fibonacci-Zahl")
}</pre>
     while (fib <= number) {
  if (fib == number) {
    return(index)
}</pre>
                                                                                                                                                              0
```

With this correction, the program should now correctly calculate the Fibonacci index for a given number.

