Copilot

Sure, I can help with that! Let's make the minimal changes needed to fix the program. Here is the corrected version of the function:

```
fibonacci_index <- function(number) {</pre>
  if (number < 0) {</pre>
    stop("Keine gültige Fibonacci-Zahl")
  index <- 1
  fib <- 1
  f1 <- 1
  f2 <- 0
  while (fib <= number) {</pre>
    if (fib == number) { # Change '=' to '=='
      return(index)
    f1 <- fib
    fib <- f1 + f2
    f2 <- f1 - f2 # Correct the update of f2
    index <- index + 1
  }
  stop("Keine gültige Fibonacci-Zahl")
}
```

The changes made are:

- 1. Changed if (fib = number) to if (fib == number) to correctly compare the values.
- 2. Corrected the update of f2 to f2 <- f1 f2 to maintain the correct Fibonacci sequence.

Try running this updated function in your program. Let me know if you need any further assistance!