

Copilot

Sure, I can help with that! Let's make the minimal changes needed to fix the program. Here are the issues I see:

1. The condition `if fib = number:` should be `if fib == number:`.
2. The Fibonacci sequence calculation is incorrect. The values of `f1` and `f2` should be updated correctly.

Here's the corrected code within the function:

```
class P2_Python_buggy:

    def fibonacci_index(number):
        if number < 0:
            raise ValueError("Keine gültige Fibonacci-Zahl")

        index = 1
        fib = 1
        f1 = 1
        f2 = 0

        while fib <= number:
            if fib == number:
                return index

            f2 = f1
            f1 = fib
            fib = f1 + f2

            index += 1

        raise ValueError("Keine gültige Fibonacci-Zahl")

    def main():
        number = int(input("Bitte geben Sie eine Zahl ein!"))

        try:
            print(f"Die Zahl ist Zahl {P2_Python_buggy.fibonacci_index(number)} der Fibonacci-Folge.")
        except ValueError as e:
            print(e)

if __name__ == "__main__":
    P2_Python_buggy.main()
```

With these changes, the program should work correctly. Let me know if you need any further assistance!