

Copilot

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

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 `fibonacci_index` 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!