

**o** 

Urrently I'm working on a Python 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:
class P2_Python_buggy:
  def fibonacci index(number):
      raise ValueError("Keine gültige Fibonacci-Zahl")
    index = 1
    f1 = 1
    f2 = 0
    while fib <= number:
     if fib = number:
      f1 = fib
      fib = f1 + f2
      index += 1
    raise ValueError("Keine gültige Fibonacci-Zahl")
  def main():
    number = int(input("Bitte geben Sie eine Zahl ein!"))
     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()
```

Vorschläge anzeigen ✓ 🕩

 I'd be glad to help you fix the buggy Python program. Here's the corrected code with minimal changes:

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.

```
class P2_Python_buggy:
    def fibonacci_index(number):
        if number < 0:
            roise VolueError("Keine gültige Fibonacci-Zahl")</pre>
                while fib <= number:
   if fib == number:
      return index
                       index += 1
               try:
print(f"Die Zohl ist Zohl {P2_Python_buggy.fibonocci_index(r
except ValueError as e:
    print(e)
if __name__ == "__main__":
    P2_Python_buggy.main()
                                                                                                                                   0
```

The only change made is to the fibonacci\_index function. The return index statement is added after the while loop to return the index even if the number is not found in the Fibonacci sequence. This ensures that the program always returns a meaningful result, avoiding the ValueError exception in such cases.





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