

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()
Verwende den Code mit Vorsicht.
                                                                                                                               0
```

The only change made is to add a return index statement at the end of the fibonacci_index function. This ensures that the function returns the index even if the number is not found in the Fibonacci series. This is because the original code would raise a ValueError in this case, which is not ideal.





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