

J Currently 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 two positive integers A and B, find GCD of A and B.

Buggy Program:

```
class P1_Python_buggy:

    def findGCD(A, B):
        while B != 0:
            temp = B
            B = A % B
            A = temp

    def main():
        A = 56
        B = 98

        gcd = P1_Python_buggy.findGCD(A, B)

        print(f"GCD of {A} and {B} is: {gcd}")

if __name__ == "__main__":
    P1_Python_buggy.main()
```

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.

Vorschläge anzeigen ▾

✦ The bug in the provided code lies in the `findGCD` function. The issue is that the function doesn't return the GCD, which is stored in the variable `A` after the loop terminates.

To fix this, simply add a `return A` statement at the end of the `findGCD` function:

```
Python

class P1_Python_buggy:
    def findGCD(A, B):
        while B != 0:
            temp = B
            B = A % B
            A = temp
        return A # Return the GCD

    def main():
        A = 56
        B = 98

        gcd = P1_Python_buggy.findGCD(A, B)

        print(f"GCD of {A} and {B} is: {gcd}")

if __name__ == "__main__":
    P1_Python_buggy.main()
```

Verwende den Code [mit Vorsicht](#).



With this change, the program will now correctly calculate and return the GCD of the given numbers.

Prompt hier eingeben



Gemini zeigt möglicherweise fehlerhafte Informationen an, z. B. zu Personen. Überprüfe daher die Antworten. [Datenschutz & Gemini-Apps](#)