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Mit einem Teamtarif...

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.

Certainly! The main issue with the provided code is that the `findGCD` function doesn't return any value. To fix this with minimal changes, we need to make sure that the function returns the computed GCD. Here's the corrected version of the code:

```
python Code kopieren

class P1_Python_buggy:

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

    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()
```

Summary of Changes:

- 1. Added a `return A` statement at the end of the `findGCD` function to return the final value of `A`, which is the GCD of `A` and `B`.

This minimal change should fix the bug in your program.

