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ChatGPT

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GCD Function Debugging Help

Python GCD Function Bug

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Mit einem Teamtarif...

I'm working on a Python programming problem. The current program below is not working well. Can you help by giving a hint? Below I first provide the problem description and then the current 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()
```

(1) Can you describe the bug(s) in this program and the required fixes?
(2) Can you provide a concise single-sentence hint about one bug in this program?
The hint should not be too detailed as I want to think about the fixes by myself.
However, the hint should not be too abstract, as I need some help.

(1) Description of the Bug(s) and Required Fixes:

1. **Return Statement Missing:** The `findGCD` function does not return the calculated GCD. It should return `A` after the while loop ends because `A` will hold the GCD at that point.

2. **Method Invocation:** The `findGCD` method is defined as an instance method, but it's being used like a static method. Either make `findGCD` a `@staticmethod`, or call it through an instance of the class.

(2) Concise Hint:

Make sure the `findGCD` function returns the final result so that the `main` function can print it.

Sende eine Nachricht an ChatGPT

ChatGPT kann Fehler machen. Überprüfe wichtige Informationen.