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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) Bug Description and Required Fixes:

- Bug 1: The `findGCD` function does not return any value, so when you try to assign its result to `gcd` in the `main()` method, `gcd` becomes `None`.
- Bug 2: In Python, the `self` parameter is required for instance methods if you plan to use them as part of a class. However, since `findGCD` is used as a static method, it should be decorated with `@staticmethod`, or you can remove the class altogether and use it as a regular function.

(2) Hint:

The `findGCD` function needs to return a value for the GCD to be correctly assigned and printed.



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