

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.

Vorschläge anzeigen ▾

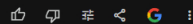


(1) **Bug:** The `findGCD` function is not returning the correct value. It modifies the `A` and `B` variables directly, but it doesn't return the final value of `A`, which should be the GCD.

Fixes:

- **Return the GCD:** Add a `return A` statement at the end of the `findGCD` function.
- **Create a separate function:** Consider creating a separate function to calculate the GCD and return the result. This can improve code readability and maintainability.

(2) **Hint:** The `findGCD` function is missing a `return` statement to return the calculated GCD.



Prompt hier eingeben



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