

ChatGPT

88 GPTs erkunden

GCD Function Bug Fix

GCD Function Debugging Help ···

Python GCD Function Bug

Bedürfnisse in der Karriere

Al in Education Research Paper

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Masterarbeitsthema Diskussion Ter

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Committees Relevant in Ambition.

Update Dictionary and Vectors

SQL CRUD with Dictionary-Encodir

Neuer Chat

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 = 56B = 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.

## Bug Description and Required Fixes:

- 1. No Return Statement in `findGCD` Method: The `findGCD` method is missing a return statement. The method calculates the GCD but does not return the result. Consequently, when the `findGCD` method is called, it returns `None`, causing the variable `gcd` to be `None`.
- 2. Method Should be Static: The method `findGCD` does not use any instance variables, so it should be defined as a "staticmethod" to avoid issues when calling it.

## Hint:

Make sure the method that calculates the GCD returns the final value.

# 0 C 6 7 ★~

Team-Arbeitsbereich hinzufügen

Sende eine Nachricht an ChatGPT

ChatGPT kann Fehler machen. Überprüfe wichtige Informationen.