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I'm working on a Python programming problem. The current program below is not working well. Can you help in fixing this program with as few changes as possible? Below I first provide the problem description and then the current buggy program.

> Given an integer N, find the number of divisors of N that are divisible by 3.

Buggy Program:

```
class P3_Python_buggy:
```

```
def find_divisors_divisible_by_3(N):
  count = 0
  for i in range(1, N + 1):
if N % i != 0:
```

return count

def main():

n = 36 # Beispielwert count = P3\_Python\_buggy.find\_divisors\_divisible\_by\_3(n)
print(f"Number of divisors of (n) that are divisible by 3: (count)")

```
if __name__ == "__main__":
P3_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.

Vorschläge anzeigen ✓ •)

The primary issue with the provided code is the incorrect ordering of the conditions. The code currently checks if a number i is not a divisor of N before checking if it's divisible by 3. This means that even if a number is divisible by 3, it won't be counted if it's not a divisor of N.

To fix this, we need to first check if  $\ \mathbf i \$  is a divisor of  $\ N \$  and then check if it's divisible by 3. Here's the corrected code:

```
class P3_Python_buggy:
    def find_divisors_divisible_by_3(N):
        count = 0
             return count
                                                                                                              o
```

This modification ensures that only numbers that are both divisors of  $\,{\rm N}\,$  and divisible by 3 are counted, resulting in the correct number of divisors.





