

Please consider this programming problem:
Given two positive integers A and B,
find GCD of A and B.
Provide an example solution for the problem in the Python language.

Vorschläge anzeigen ▾ 🔊

Python

```
def gcd(a, b):  
    """Calculates the greatest common divisor (GCD) of two positive integers.  
  
    Args:  
        a: The first positive integer.  
        b: The second positive integer.  
  
    Returns:  
        The GCD of a and b.  
    """  
  
    while b != 0:  
        a, b = b, a % b  
    return a  
  
# Example usage:  
a = 12  
b = 15  
result = gcd(a, b)  
print("GCD of", a, "and", b, "is:", result)
```

Verwende den Code [mit Vorsicht](#).

This code implements the Euclidean algorithm to find the GCD. The algorithm works by repeatedly calculating the remainder of the larger number divided by the smaller number and replacing the larger number with the smaller number and the smaller number with the remainder. The process continues until the remainder is 0. At this point, the GCD is the last non-zero value of the smaller number.

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