

Code snippet

```
def is_wilson_prime(p):  
    if not isinstance(p, int) or p < 2:  
        return False  
    factorial = 1  
    for i in range(2, p):  
        factorial *= i  
    return (factorial + 1) % (p * p) == 0
```

Code

```
# Example usage:  
# print(is_wilson_prime(5)) # True  
# print(is_wilson_prime(563)) # True  
# print(is_wilson_prime(2)) # False
```

Comments

This function checks whether a given number `p` is a Wilson prime. It calculates $(P-1)! + 1$ and checks if it is divisible by $P * P$. Be cautious with large numbers due to factorial growth.

Natural
Language

