SHERLOCK Debug Analysis

Error: RecursionError

Root Cause

The recursive function `factorial` lacks a base case. Without a condition to stop the recursion, it calls itself indefinitely, leading to an infinite recursion that eventually exceeds Python's maximum recursion depth.

Fix

Add a base case to the `factorial` function. For the factorial function, the base case is when `n` is 0, in which case it should return 1.

Fixed Code

```
def factorial(n): if n == 0: return 1 return n * factorial(n-1)
```

Confidence: 100%