

Bug Report

Title: Major Functional Bug: Incorrect Factorial Calculation for Input "1000"

ID: BUG-001

Reported By: Lungelo Tom

Date: January 8, 2025

Environment:

- Browser: Chrome 108.0.5359.124
- Operating System: Windows 10
- URL: <http://qainterview.pythonanywhere.com>

Description: When the user inputs the number "1000" and clicks the "Calculate!" button, the application returns an incorrect factorial value. The expected result for the factorial of 1000 is $4.023872601 \times 10^{2567}$, but the application does not display the results

Steps to Reproduce:

1. Navigate to <http://qainterview.pythonanywhere.com>.
2. Enter 1000 in the input field with the id #number.
3. Click the "Calculate!" button with the id #getFactorial.
4. Observe the result displayed in the element with the id #resultDiv.

Expected Result: The application should display $4.023872601 \times 10^{2567}$ as the factorial of 1000.

Actual Result: The application displays an incorrect value for the factorial of 1000.

Screenshots:

- Step 1: Home Page - !Step1_HomePage.png
- Step 2: Input 1000 - !Step2_Input_1000.png
- Step 3: Calculate Clicked - !Step3_CalculateClicked.png
- Step 4: Result Displayed - !Step4_ResultDisplayed.png

Additional Information:

- The issue was consistently reproducible across multiple browsers (Chrome, Firefox, Edge).
- No relevant error messages were found in the browser console.

Severity: Major

Priority: High

Assigned To: BitCube

Status: Open