How to Run the Banker's Algorithm Simulator

Follow these simple steps to run the Banker's Algorithm Simulator:

1. Download Files

Ensure you have the following three files:

- `gg.html`

- `gg.js`

- `ggstyle.css`

File Overview

- `gg.html`: The main structure of the web page.

- `gg.js`: JavaScript logic for the simulator.

- `ggstyle.css`: CSS styling for a user-friendly interface.

2. Run the Simulator

Step-by-Step Instructions:

Option 1: Using a Web Browser (Recommended)

1. **Locate Files:** Ensure all files are in the same folder.

2. **Open `gg.html`:** Double-click or right-click and open it with any modern web browser (e.g., Google Chrome, Firefox, Microsoft Edge).

3. **Simulator Interface:** The web page will load the simulator interface.

Option 2: Using a Local Web Server (Optional for Advanced Users)

1. **Set Up Local Server:** Use tools like XAMPP, WAMP, or Python's simple HTTP server.

    - Python example:
      ```
      python -m http.server
      ```

2. **Open `gg.html`:** Access the file via `http://localhost:8000/gg.html` or similar depending on your server setup.

3. Usage Instructions

1. **Enter Process and Resource Data:** Input the number of processes and resource types.

2. **Create Tables:** Click the "Create All Tables" button.

3. **Input Data:** Populate Allocation and Maximum tables with appropriate values.

4. **Find Need:** Click the "Find Need" button.

5. **Find Available:** Click the "Find Available" button.

6. **Safe Sequence:** Click the "Find Safe Sequence" button to determine if a safe sequence exists.

4. Troubleshooting

- Ensure all files are correctly located in the same folder.

- Make sure you use a modern browser.

- Clear browser cache if changes are not reflected.

- Check for empty or invalid inputs when using the simulator.