Murder Mystery: Debugger Edition Worksheet

Scenario Overview

You are summoned to an exclusive dinner party in honor of your close companion, IntelliJ. Pressed for time, you've been obsessing over your CSE116 tasks, chasing that elusive 1.0, and now, you're running late. You call IntelliJ, apologizing for your delay. Their voice, cheerful, reassures you: "You're late for a noble cause." Relieved, you take your time arriving.

But as you step through the door, an uneasy chill fills the air. IntelliJ, once vibrant, is now dead.

Now, it's up to you to uncover the culprit and seek justice for your dearest friend before it's too late.

Your mission: uncover the culprit and seek justice for your dearest friend before it's too late.

Suspects

1. **The Butler**
2. **The Chef**
3. **The Wife**
4. **The Maid**
5. **The Secretary**

Gathered Testimonies

The Butler

"I had nothing to do with it. I was merely following instructions, doing my utmost to set everything for IntelliJ. The guests arrived sooner than expected, and I was frantically trying to ensure everything was in place. Perhaps I could've been more precise, but I swear—nothing I did could have led to what happened to them."

- **Debugging Task**: The butler wrote the getters and setters. Double-check them for potential sloppy errors.

The Chef

"I'm here to cook, plain and simple. I thought making a grocery list would help, but let's be honest—I'm not a list maker; I'm a cook! I did my best, but with chicken, steak, and pasta to juggle, who has time for accuracy? The kitchen can be chaotic, and I trust my instincts. Why should I change that approach with the list?"

- **Debugging Task**: The chef wrote the `groceryList()` method. Review it for any flaws that could lead to missing or incorrect ingredients

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The Wife

"I was only trying to ensure all guest information was accurately entered into the database. Each invite was meticulously crafted by hand—look at the details! My maid helped me, but that's what she's for, right? I've been eagerly counting down the days to this party, and now, I'm hosting it all alone!"

- **Debugging Task**: The wife wrote the `addGuests()` method. Check for any logic errors that could lead to missing guest data.

The Maid

"I was far too busy catering to IntelliJ's whims to even entertain the idea of poisoning them! With endless requests and my busy wife throwing demands at me, how could anyone expect me to keep my cool? Each task feels endless, and I was just trying to keep everything afloat."

- **Debugging Task**: The maid wrote the `addGuestsHelper()` method. Ensure it functions correctly without errors that could lead to omissions.

The Secretary

"Please, you must believe me! I was assigned to call all the guests who hadn't made reservations. I diligently reviewed the entire guest list and found that everyone had already reserved their spot. I double-checked the records—there was nothing more to be done. I assure you, I had no intention of neglecting my duties."

- **Debugging Task**: The secretary wrote the `guestsToCall()` method. Verify the logic and ensure it accurately identifies guests without reservations.

Your Investigation Task

As the detective, it's your responsibility to debug the code and evaluate each character's testimony for credibility. Consider the following steps:

1. **Analyze Each Testimony**: Identify any inconsistencies or suspicious elements in each suspect's statement.
2. **Debug the Methods**: Review the relevant methods written by each suspect to ensure they function correctly and reveal any potential errors or oversights.
3. **Motivations and Opportunities**: Assess each character's potential motives for harming IntelliJ and their opportunity to do so during the party.
4. **Draw Conclusions**: Based on your findings, determine who among the suspects is most likely to have poisoned IntelliJ.

Final Deliverable

Prepare a comprehensive report outlining:

- The findings from your investigation
- The reliability of each suspect's testimony
- The results of your debugging efforts
- Your conclusion about who killed IntelliJ and the rationale behind it.

Notes

Remember, the goal is to unravel the mystery through careful analysis of statements and debugging. Keep your detective instincts sharp, and let the truth emerge!