**Debugging and Completing a C Program: Array Processor**

**https://github.com/CYBS-3113/operator-debug-djdcybersecurity**

A screenshot of a computer

Description automatically generated

**Objective**

Your task is to debug and complete a C program (array\_processor.c) that processes a predefined array of numbers. The program will:

1. Compute the sum and average of the numbers in the array.
2. Determine whether the **integer part of the average** is even or odd.

This assignment emphasizes:

* Debugging skills.
* Correct usage of arrays and loops.
* Understanding arithmetic and logical operations.
* Proper control flow with if-else.

**Instructions**

1. **Analyze the provided code:**
   * The provided array\_processor.c contains intentional syntax, logic, and runtime errors.
   * Your task is to identify, fix, and document all issues.
2. **Debug and Complete:**
   * Fix all syntax errors (e.g., incorrect array boundaries, invalid function calls).
   * Implement the isEven() function to determine if a number is even.
   * Ensure that the program calculates the sum and average correctly and checks the **integer part** of the average for evenness or oddness.
3. **Test the Program:**
   * Verify that the program produces the expected results for the predefined array.
   * Modify the array if needed to test additional scenarios and edge cases.
4. **Automated Testing via GitHub Actions:**
   * Push your corrected code to the repository.
   * GitHub Actions will automatically:
     + Compile the program using GCC.
     + Run the program.
     + Validate the output using test cases.