DEBUG03-01

1. **Initialization before entering** firstTest: in order for **the while** loop to work correctly, the value of **firstTest** needs to be initialized before entering the loop, otherwise, the condition of the **while** loop will be undefined due to the undefined **firstTest** which may result in an error.
2. **Misspelling of output command**: **ouput "Average is ", average** should be **output "Average is ", average**.

* Initialize **firstTest** to a non-zero value before the start of the loop to ensure that the program can enter the loop.
* Fixed spelling errors in the **output** command.
* Requested the user to enter the value of **firstTest** again at the end of the loop to give the user a chance to exit the program or continue entering the next set of scores.

DEBUG03-02

1. **Wrong type of variable**: **DEDUCTION** is declared to be of type **string**, but it should be of type **num** because it is used for mathematical calculations.
2. **Loop Logic Error**: It is inappropriate to use a **while** loop to check whether **net** is greater than 0, because the purpose here is not to repeat the execution, but to judge only once based on the value of **net** and output the corresponding information. An **if** statement should be used instead of a **while** loop.
3. **Loop logic fails to process multiple employees correctly**: The program should be able to process information for multiple employees continuously until **EOFNAME** is entered; the current logic does not correctly loop back after processing an employee to continue accepting information for the next employee.

* Changed the type of the **DEDUCTION** variable to **num** to facilitate subtraction.
* Replace the originally incorrectly used **while** loop with an **if** statement to correctly determine and output each employee's net salary situation.
* Restructure the entire program to use an outer **while** loop to accept input of employee names repeatedly until a specific **EOFNAME** is entered in order to be able to process salary calculations for multiple employees in succession.

DEBUG03-03

1. **Duplicate loop structure**: The pseudo-code uses three separate **while** loops, which is unnecessary as all three modules ( **housekeeping**, **mainLoop**, **finish** ) can be called from a single loop structure.
2. **Problems with** EOFNAME **declaration**: The value of **EOFNAME** should be a string, so it needs to be enclosed in quotes, i.e. **"ZZZZ".**
3. **The** name **variable is not entered in the** housekeeping **module**: there should be an input operation for the **name** variable before the **housekeeping** module ends, so that the loop can make a judgment based on this value.
4. **Errors in loop logic and module calls**: the **housekeeping** and **mainLoop** modules should be called sequentially in a loop until **EOFNAME** is entered. **finish** module should be called once outside the loop, after the loop ends.

* Corrected the value of **EOFNAME** to a string: **"ZZZZ".**
* Three **while** loops are combined into one, where **housekeeping** is used to initialize and get **name** at the beginning of each loop, and **mainLoop** is used to process input and display results. The loop decides whether or not to continue based on whether or not **name** is equal to **EOFNAME**.
* The call to **housekeeping** is moved to the beginning of the loop, and **housekeeping** is called again after each **mainLoop** execution to get **the** name again until the user enters **EOFNAME**.
* The **finish** module is placed outside the loop and is called only once after the entire loop has ended, marking the end of the program.

Choose a simple children’s game and describe its logic. Then create a text file with pseudocode.

