

Developer's journal

1. Reflections and Lessons on Assignment 1

I shouldn't include programming syntax in algorithm.

Read the question carefully, be careful about decimal point format.

Magic number should declare as constant.

Do not Repeated the code.

I can't missing validate input algorithm.

2. Work Entries

17/01/2024, 7:00pm-11:00pm

Work: Having carefully read and understood assessment2, created the a2_animals folder and started building the basic program framework and writing the main code.

Challenges: During testing, I found a few issues, specifically when entering an existing animal name, it would show the menu again to reselect it instead of just letting the user re-enter the animal name. Some tweaks will be made tomorrow to correct this problem.

18/01/2024, 8:00pm-10:00pm

Work: Finished the main code and did some basic functionality testing. Fixed some known bugs and issues, resolved leftover issues from yesterday.

Challenges: The program runs with many bugs and errors, especially when correcting one line of a function other code is also affected.

19/01/2024, 2:00pm-6:00pm

Work: Performance tests were performed again and some refactoring of the code was done to improve readability and user experience.

Challenges: I found that the code logic was wrong in some specific cases. After careful debugging, I found two conditional judgment errors and fixed them for both problems.

20/01/2024, 7:00pm-19:00pm

Work: Performed further functional testing and resolved bugs found on the previous day. Performed some code reviews and made some changes and improvements based on feedback.

Challenges: During the debugging of the code, I realized that the implementation of certain features was not efficient enough. I decided to rewrite those parts of the code and use more

appropriate algorithms and data structures.

21/01/2024, 1:00pm-5:00pm

Work: Completed final functional tests and prepared the commit version. Finished the last day of journal file and final python code and intend to submit it to get feedback from the teacher.

Challenges: Reviewed the problems in ass1 and verified ass2 to ensure that the problems do not recur.

3. Summary

Over the past five days, I worked on developing an animal totalizer and documented the daily progress and challenges I encountered. Through this process, I have gained many valuable experiences and lessons.

First, I learned how to plan and organize my time and tasks for the project. On the first day, I created the project folder and wrote the main code, laying the groundwork for subsequent work. During the work progress, I reflected on the problems I encountered in ASSESSMENT 1, which helped me to better clarify my thinking and logic, and to make necessary changes in the subsequent development process.

Second, I encountered many technical and logical challenges. During the testing process, I found a lot of bugs and errors, and solving these problems required a lot of patience, careful thinking, and gradual corrections. I spent a lot of time on performance testing, and whenever I made a change I would re-run the entire code to make sure my program ran smoothly.

Through these five days of work, I have come to realize my own shortcomings, and I still need to do more learning to improve my ability to write code. I will continue to study hard to make my code writing better.