Post-Mortem
CS135 Winter 2022, Assignment 04
Feb 15, 2022

We normally publish the post-mortem for an assignment after it has been marked and released. Here is a list of common errors provided by the graders for assignment 4.

Parts of Q03, Q04 and Q05 were chosen to be marked for different style criteria. Thus, it is possible that other questions might have style problems that we did not address. There were also design recipe elements that we chose to give feedback on and not deduct for. You should still improve on these, since we may decide to deduct for them on a later assignment. Please review the posted solutions and style guide to help resolve any questions you may have. If that is insufficient, please raise your questions in 1-1 consulting hours.

Question 3 (duplicates.rkt)
Purpose

- Many students did not adequately explain the meaning behind the function remove-duplicates. Since there are multiple ways to remove duplicates from a list, it must be specified that we are removing all but the last occurrence of each number.

- Many students did not explicitly reference the function parameters by name in the purpose. As a reminder, this means that the parameters that appear in your function header should be referenced by exact name in the purpose. For example: 
  "...takes in a list of numbers [lon] and ..."

Question 4 (change.rkt)
Constants and Code Complexity

- Many students did not use constants in this question. Constants should be used whenever working with "magic numbers". As a rule-of-thumb, values that are specified by the question or else appear multiple times in the code should mostly likely be constants.

- Some students did define constants, but then did not use them in their functions.

Question 5 (prime.rkt)
Contract

- Many students used Num instead of Nat in their prime number contracts. Remember to be as-specific-as-possible in your contract typing. By definition, a prime number is always natural.
Questions 3, 4 and 5

Whitespace and Layout

- Many students were missing a newline between certain design recipe elements. As a reminder, some but not all design recipe elements require newlines as a separator. Please see the style guide for more information on this.

- Many students were missing 2 newlines or a separator between function blocks. These newlines are important as they improve readability and formatting for your design-recipe code blocks.