

University of Waterloo
CS240E, Winter 2024
Programming Question 1 Post-Mortem

Correctness [18 marks]

- Most solutions passed all public tests. Keep in mind that the public tests are only really there to ensure that your submission compiles. They are not comprehensive.
- Many solutions correctly handled insert, but failed when deletions were introduced.

Readability [1 mark]

- This component was done well. All solutions were consistently formatted and easy to read.
- A small common error were exceedingly long lines (especially those with comments). This was not penalized.
- A small error was using invariants that should always be true as part of if clauses. These should really be assert statements.
- Also note that you can and are encouraged to remove any placeholder comments.

Documentation [1 mark]

- Some students wrote helper routines with descriptive names, and gave variables descriptive names, which made the code self-documenting. This is great practice.
- Writing code that is easy to maintain and understand a long time after it is written is much better practice. A lot of solutions used lots of case analysis (which is generally fine for this class), but left it entirely undocumented.