

**University of Waterloo**  
**CS240 Fall 2020**  
**Assignment 3 Post Mortem**

**Problem 1** [0+2+2=4 marks]

- Some students didn't get a correct tree.

**Problem 2** [2+4=6 marks]

- For part b), few students forgot to rebalance at the end.

**Problem 3** [3+3+4=10 marks]

- For part a) and part b), a few students thought this is  $O(\log n)$ .
- For part c), a few students didn't think this is  $O(\log n)$

**Problem 4** [0+2+1+2+2+2=9 marks]

- For part c), a few students didn't mention that the coin flips are independent.

**Problem 5** [2+2+2=6 marks]

- Some students gave wrong number here.

**Problem 6** [2+2+2+2=8 marks]

- Lots of students didn't follow the format described in course slides/notes.