

University of Waterloo
CS240 Spring 2026
Assignment 1 Post Mortem

Due Date: Tuesday, June 9 at 5:00pm

Question 1 [1+4+5=10 marks]

Some students did not give an algorithm for b and c.

Some students did not give a runtime for their algorithm.

Some students wrong had pairs in their pseudocode wrong - $A[2]$, $A[3]$, ..., $A[n-1]$ were counted twice.

Question 2 [1+3+4+5=13 marks]

A common error was making the heap index start at 1.

Some students treated heap as a class, not an array

Some students inserted into one heap, do fix-up, and then inserted into the second heap without considering the changes made by the fix-up.

Some students wrote delete-max/delete-min instead of swapping with last.

Some students only used fix-down in d.

Some students did not change size after insert or delete.

Question 3 [2+4+5=11 marks]

A few students did not fully simplify.

Some students missed later parts of b.