# Professional Integrity Report (CPS101)

**Student Name: Alex McColm**                    **Assignment #: 8**

**It took me 4 hours to complete the assignment.**

**These parts of the program work well:**

The MaxHeap has been converted to take a generic class successfully. The Priority Queue class functions, taking patients names and priority scores and dequeueing the highest priority patients first, and when priorities are equal, dequeueing the first in line. The toString for the Patient class puts out a nicely formatted string, with the name separated from the priority by a uniform number of spaces for alignment in the console.

**These parts of the program don't work well** (please identify the specific problem):

The PriorityQueue is not generic, it is specifically a priority queue implementation for Patient objects.

**I learnt the following in doing the assignment:**

I learned how a MaxHeap could be used to implement a priority queue with only minor modifications.

**The difficulties I encountered were:**

Getting the generic array to work took some messing with, as I needed to pay closer attention to the instructions. The CompareTo method for the Patient class required some fiddling with in order to properly recognize as an existing patient with equal priority as "greater" than it.

**Here are some other comments or suggestions:**