CS273: Final Code Review

# Questions to answer:

1. Who did you work with?
   1. Jacob
2. How is time defined?
   1. Time is not defined.
3. What kinds of things can happen at each “moment”?
   1. The simulation doesn’t currently run but if it did patients could be created, and then treated.
   2. Doctors would pick patients based off of their injury number.
4. What happens when the parameters of the simulation changes? Do the results make sense?
   1. The simulation doesn’t currently run.
5. Were there any bugs or issues that you fixed?
   1. There weren’t any bugs in the current code that we could see but we talked about what they could add in order to start to let the program work.
6. Explain how each data structure is used.
   1. The data structure that was used is a priority queue. It is used to take each patient and put them in a queue by how bad their injury is, and then treated by the caregivers.
   2. Vectors were used to keep track of the Patients while they were in the queue.
7. What alternative data structures were considered? Why were they not chosen?
   1. Multisets to keep track of how many patients visited and were treated.
8. What alternative data structures would you have also considered?
   1. We would have considered using maps to keep track of which patients had been treated.
9. Does the class hierarchy make sense? Are there other refactoring opportunities?
   1. There isn’t much of a hierarchy currently but the caregivers are supposed to be the parent of Doctors and Nurses.
10. Is memory managed correctly (e.g. are pointers correctly deallocated)?
    1. There aren’t any pointers to delete currently.
11. Are exceptions handled correctly?
    1. There aren’t any exceptions handled because nothing can be imported currently.