Review Session

Please fill our course evaluations!

Next Week

- Monday: No class
 - My Office hours Canceled
- Tuesday: Bounds on what a computer can do
- Wednesday: Machine Learning
- Thursday: Wrap up

Exam Topics

- Cumulative, but emphasis on topics since the first midterm:
 - Pointers, Pointers-by-reference
 - Linked Lists
 - create, destroy, traversal, insert, remove, Big-O runtime
 - Dynamic Arrays
 - create, destroy, growing, Big-O runtime
 - Binary Search Trees
 - create, destroy, search, Big-O runtime
 - Tries
 - create, destroy, search, add, remove, Big-O runtime

Exam Topics

- Cumulative, but emphasis on topics since the first midterm:
 - Hashing
 - good, bad, using a hash function, Big-O runtime
 - Implementing Queue, Stack, Vector, Set, HashMap, Lexicon
 - Graphs
 - BFS, DFS
 - No MST, Dijkstra's or A*

Exam Topics

- Stuff that's likely to come up from the first half of the quarter:
 - Big-O Runtime
 - Worst case vs. Best Case vs. Average Case
 - $O(n), O(n^2), O(\log n)$
 - Exhaustive Recursion
 - subsets, permutations, combinations

Let's do some practice problems