Topics for CSCI 151 Exam 2
Friday, April 16

Here are the structures we have looked at since the first exam:

- Iterators
- Single- and doubly-linked lists
- Trees in general
- Binary Search Trees
- AVL trees
- Maps
- Hash Tables, and Hash Maps

We have also talked about two $O(n\log(n))$ sorting algorithms:

- MergeSort
- QuickSort

And about two recursive techniques:

- Dynamic Programming
- Backtracking

For each data structure you should know how it is implemented, how it works, what it is good for, and a Big-O estimate of running times for its algorithms. I will expect you to know details about how the structures work. For example, I could give you a specific AVL tree and ask you to find the AVL tree that would result from adding a particular value to this tree. You should know all of the structures and algorithms we have covered in this level of detail.