Exam 1 Topics

All topics and details as covered in class

If something was discussed in class, it can be asked in the exam

No cheat sheets are allowed

- Insertion Sort
 - o Pseudocode
 - Cost analysis
 - Setup tables with book keeping for 7 or fewer n
 - o Running Time
- Merge Sort
 - o Pseudocode
 - Cost analysis
 - Setup tables with book keeping for 7 or fewer n
 - o Running Time
 - o Recurrences
 - o Recursion Tree
- Growth of Functions
 - Understanding of the topic
- Asymptotic notation
 - o Theta, Big-O, Big-Omega, little-o, little-omega
 - o Mathematical definition, meaning, interpretation, inter-relation, visual representation
- Divide and Conquer
 - o Recurrences
- Solving Recurrences
 - Substitution method (as much detail as covered in class)
 - o Recursion tree method
 - Master method (definitions, cases, usage)