**Pre-Final Topics  
1) ADT Tree and implementations   
 \* Definition of a tree   
 \* Basic concepts and terms related to tree  
 \* Tree Traversals [Preorder, Inorder, Postorder]  
 \* ADT Tree Implementations  
 a) Parent Pointer Implementation  
 b) List of Children Implementation  
 \* Binary Tree definition and Implementations   
 \* Expression Trees (WTF)  
 \* Huffman Code (WTF Version 2)  
2) Binary Search Tree (BST)   
 \* Description and Implementation  
 \* Operations: Insert, Delete, and Member  
 \* Similarity and Difference between BST and AVL trees  
 \* Binary Search vs. Sequential Search  
3) ADT Priority Queue  
 \* Partially Ordered Tree (POT)  
 \* Min and Max heap  
 - MinHeap ==> Operations: insert and deleteMin  
 - MaxHeap ==> Operations: insert and deleteMax  
 \* MinHeapify and MaxHeapify  
 Version 1: Insert all elements in an initially empty POT  
 Version 2: Heapify starting with lowest level parent  
4) Heapsort Sorting Technique (in place)**