

# CP-CS1-M

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## Binary Search Trees | Heap | Hashing | Disjoint Sets

### 0. **Implement CRUD in BST (Medium)**

#### 1. **Implement CRUD in Heap (Medium)** => Priority Queue

#### 2. H/W: Implement Heap Sort (Medium)

#### 3. [Construct BST from preorder traversal](#) (Easy to Medium)

#### 4. [Median of a stream of running integers](#) (Hard)

### 5. [Merge K Sorted Arrays](#) (Medium - Hard)

#### 6. [Kth Largest/Smallest Element in an array](#) (Hard)

### 7. **Largest BST in Binary Tree (Hard)**

#### 8. [LCA of BST](#) (Easy)

#### 9. [Inorder Successor in BST](#) (Medium)

### 10. [Sorted Array to BST](#) (Easy)

#### 11. [Given n appointments, find all conflicting appointments](#) (Hard) / Let's not talk about this as this question is the application of Interval Trees which is internally avl tree.

#### 12. [Find kth smallest element in BST \(Order Statistics in BST\)](#) (Medium)

#### 13. [Construct BST from its given level order traversal](#) (Hard)

#### 14. [Print BST keys in the given range](#) (Easy)

- Talk about hashing algorithms
  - Implement Map (Ordered/Unordered Map)