CS 225
Data Structures

Oct. 9 – BST Operations
Binary Tree as a Search Structure
Binary Tree (BST)

A BST is a binary tree $T$ such that:
Binary Search Tree (BST)

Best case?

Worst case?
Binary Search Tree (BST)

Insertion of sorted elements?

Running time?
Exam Information

Current Live Exam: Exam 5
- Theory Exam
- Topics: Stacks, Queues, and Lists

Next Week: Exam 6
- Programming Exam
- Topics: MP3-like
#ifndef DICTIONARY_H
#define DICTIONARY_H

template <class K, class V>
class BST {
    public:
        BST();
        void insert(const K key, V value);
        V remove(const K & key);
        V find(const K & key) const;
        TreeIterator traverse() const;
    private:

};
#endif
template<class K, class V>

TreeNode* find(TreeNode* root, const K & key) const {

}
template<class K, class V>

________________________ _insert(TreeNode *& root, K key, V value) {

template<class K, class V>

________________________ _remove(TreeNode * & root, const K & key) {
}
remove(40);
remove(25);
remove(10);
remove(13);
template<class K, class V>

_Remove(TreeNode * & root, const K & key) {
}
CS 225 – Things To Be Doing

Exam 5 (Theory, lists/stacks/queues) is live now!
More Info: https://courses.engr.illinois.edu/cs225/fa2017/exams/

MP3: Available now!
Due Tonight: Monday, Oct. 9 at 11:59pm

Lab: lab_trie
Coming this Wednesday!

POTD
Every Monday-Friday – Worth +1 Extra Credit /problem (up to +40 total)