Quiz 5
Thursday July 25
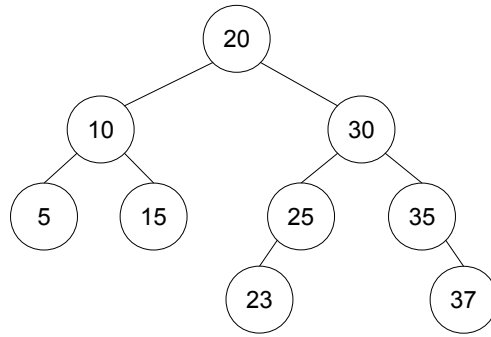CSc 345 – Summer 2012
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Name_____

Instructions

1. This is an individual assignment. You must do your own work.

2. Show all work. Incomplete solutions will **not** receive full credit

Problem 1 (5 Points)

Inserting words into an alphabet trie in the following order: `crikey`, `summer`, `classes`, and `class`. Show the resulting trie.

Problem 2 (2 points)

What is big-O of the average and worst case for insertion/deletion/search for AVL trees and splay trees?

Problem 2 (3 Points)

Assume the tree above is an AVL tree. Show what the resulting tree would look like after inserting 40 (and after balancing, if needed).

Problem 3 (3 Points)

Now assume the tree is a splay tree. Show the resulting tree after a search for 16.