Lecture 23 - Wednesday, April 5

Announcements

- ProgTest1: Jackie (Office Hour)
- Assignment 4 released
- Exam guide to be released



- search property

- 40verng property (The order traversal)

- searching - rerensite - searching - RT: arcurate Qh best case O(legn)

WORKE COSE D(1)

- Tristertion (searching)











Balanced Binary Search Tree

Motivation and Property

Worst-Case RT: BST with Linear Height

Example 1: Inserted Entries with Decreasing Keys

<100, 75, <u>6</u>8, 60, 50, 1>

Example 2: Inserted Entries with Increasing Keys

<1, 50, 60, 68, 75, 100>

Example 3: Inserted Entries with In-Between Keys <1, 100, 50, 75, 60, 68>



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100

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Balanced BST: Definition





Priority Queue

Intro & List-Based Implementations

What is a Priority Queue (PQ)



List-Based Implementations of Priority Queue (PQ)



Approach 1: Sorted List

