Lecture 18 - Nov 17

<u>Graphs</u>

Priority Queues ADT: Introduction Heap: Structural Property Heap: Relational Property

Announcements/Reminders

- Today's class: notes template posted
- Assignment 2 released
- Change of Dates:
 - + Assignment 2 to be due on Wed, Nov 19
 - + Test 2 to be take place on Mon, Nov 24
- Online Course Evaluation

Wednesday class: 240-50 min lecture. or stille 240 min. Q& A 2000 how.

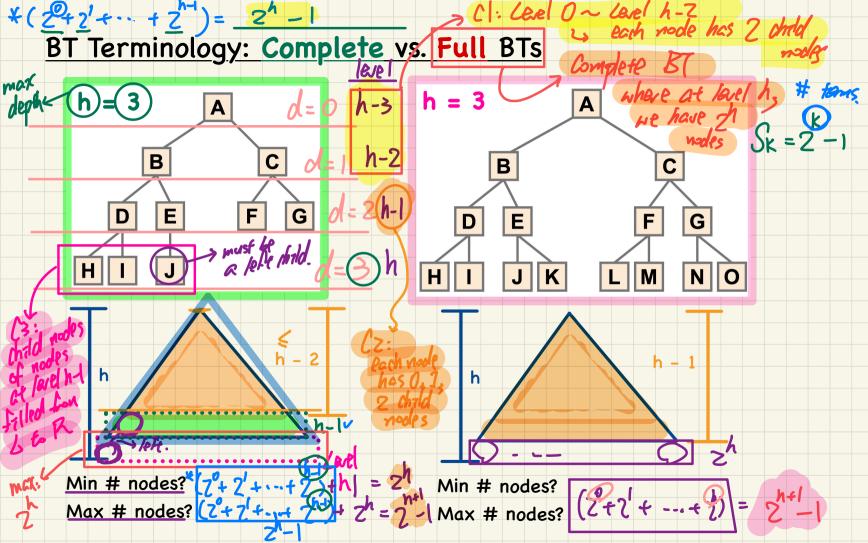
Test 2 (WSC 106, 4:30 PM to 5:20 PM, Monday Nov 24) • Coverage + Graphs lecture (slides 33 — 72, notes, example code) Petul + Tutorials Weeks 9 and 10 2 + Assignment 2 + Programming Part (Eclipse): vet. solutions * Import a Java starter project (like A2) * Implement Java classes/methods to pass test cases * e.g., Implement graph op from scratch. * e.g., Implement graph op based on given DFS (A1) or BFS (A2). **Written** Part (eClass): MCQs V

* Written questions (e.g., short answers, justifications, proofs)

What is a Priority Queue (PQ) insert (9).e3)···(3, e4) (1, e5)(3, e2) (2, e6)(6, e1)••• (hypest provides (hypest grantly)

Entry v entires with the Entry with **Highest** Priority Compare YOU with FIFO Quare 1. entires in Pa removed according to privity values 7. entires in FIFO queup removed according to thromological order of insortions.

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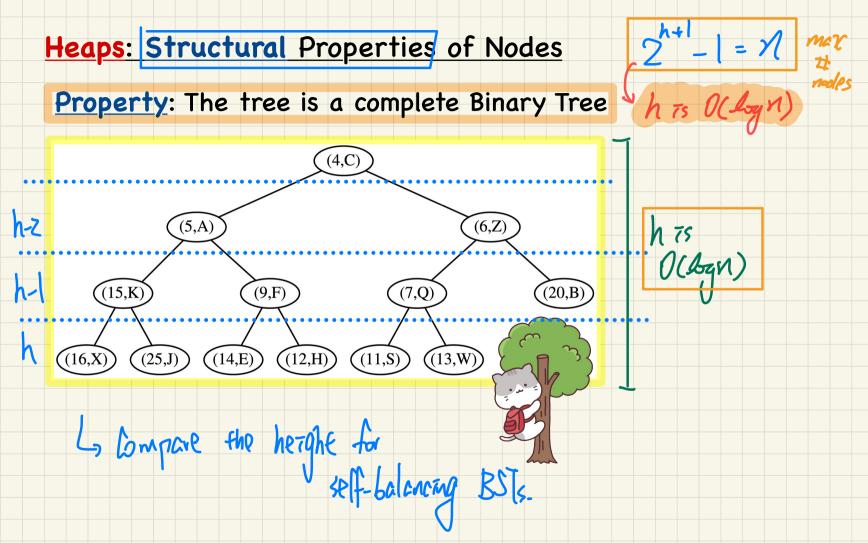


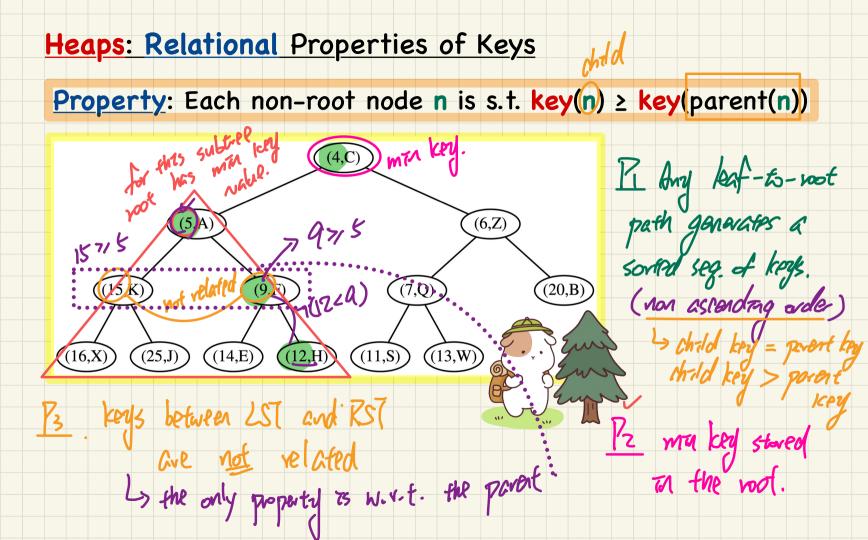
Green we twice Sequence

Anst form

$$V = V - V$$

The case of BT with height = h





Example Heaps

