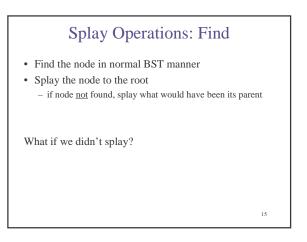


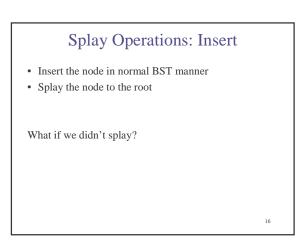
Practical Benefit of Splaying

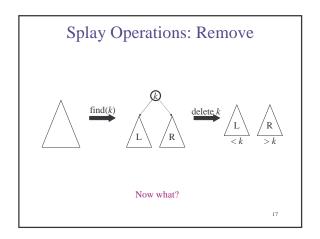
- No heights to maintain, no imbalance to check for - Less storage per node, easier to code
- Often data that is accessed once, is soon accessed again!

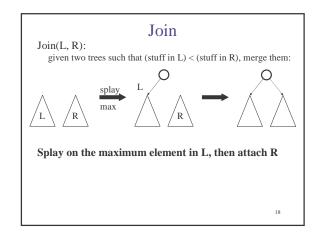
- Splaying does implicit caching by bringing it to the root

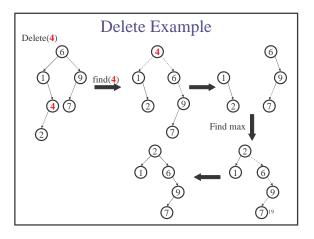
14

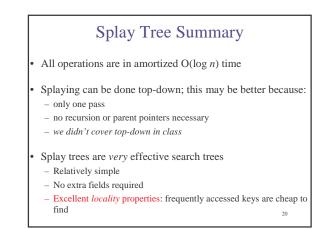












The Memory Hierarchy & Locality

Why do we need to know about the memory hierarchy/locality?

• One of the assumptions that Big-Oh makes is that all operations take the same amount of time.

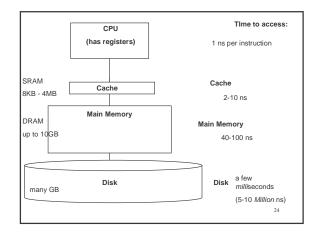
22

• Is that really true?

Definitions

Cycle – (for our purposes) the time it takes to execute a single simple instruction. (ex. Add 2 registers together)

Memory Latency - time it takes to access memory



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