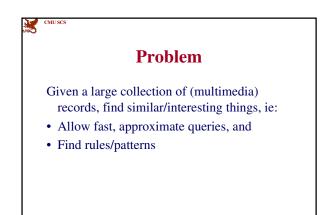


15-826: Multimedia Databases and Data Mining

Primary key indexing – B-trees

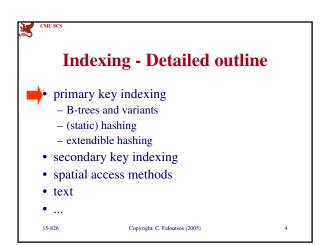
Christos Faloutsos - CMU

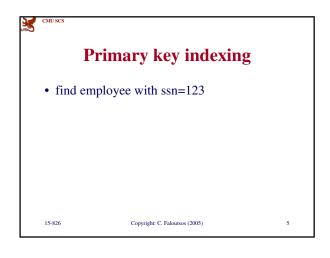
www.cs.cmu.edu/~christos

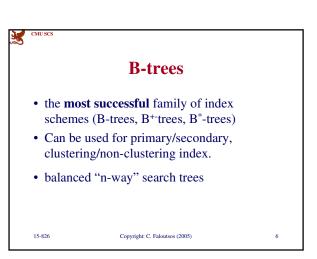


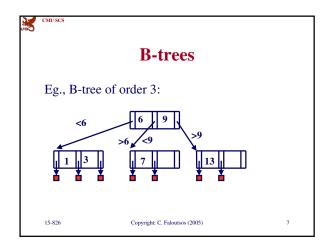
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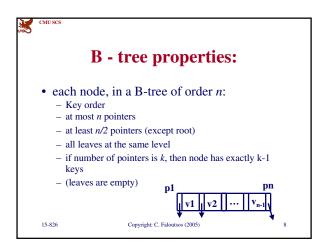


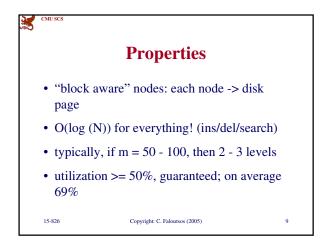


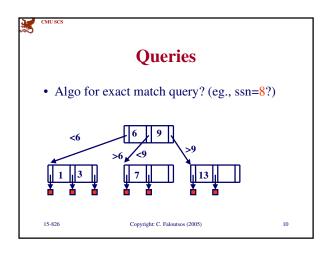


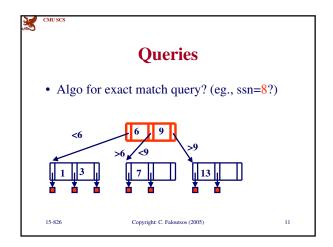


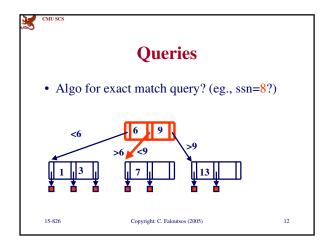


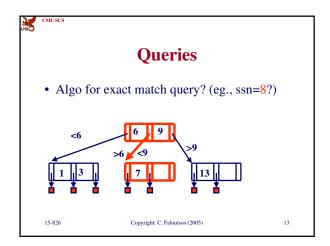


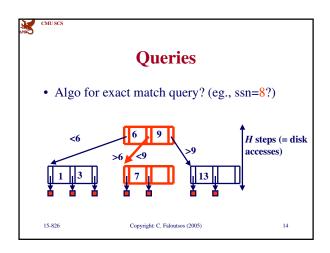


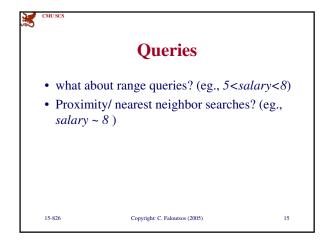


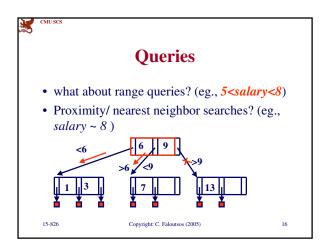


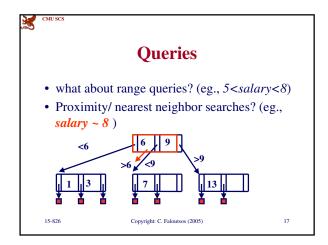


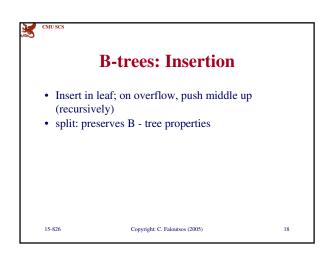


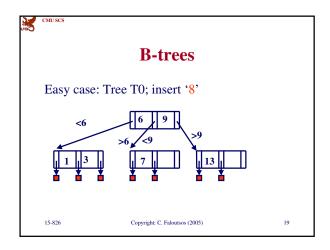


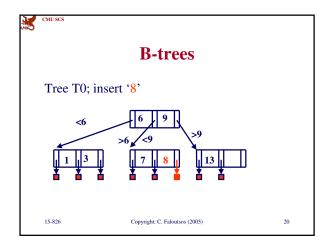


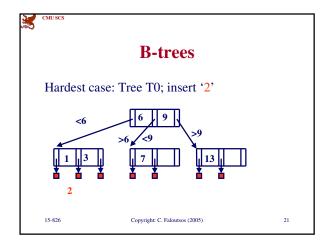


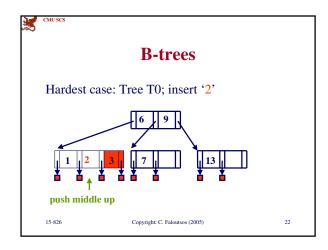


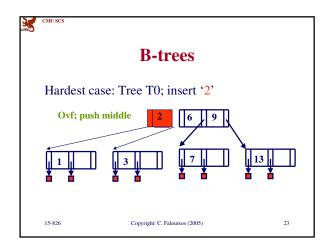


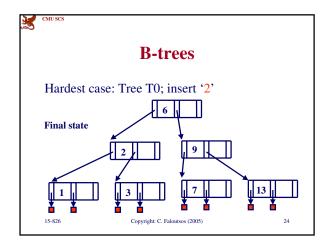


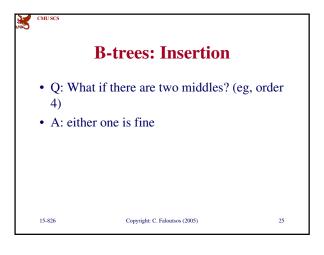


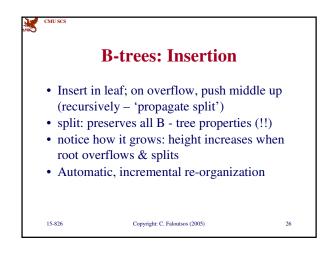


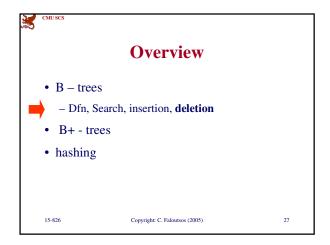


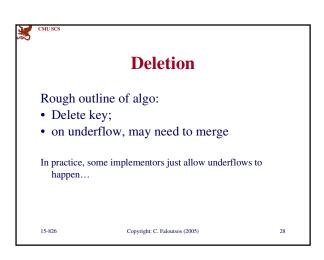


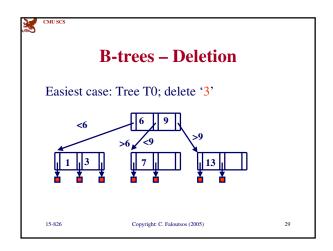


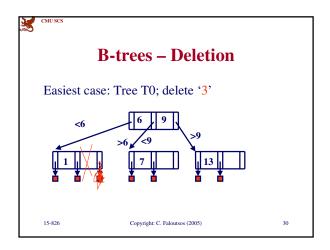


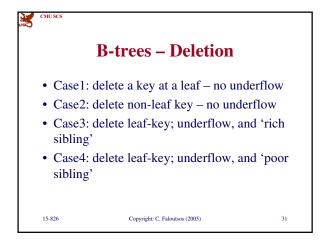


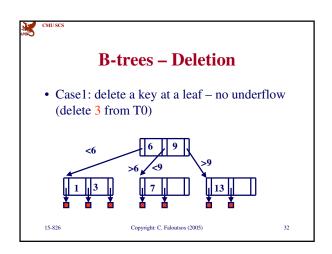


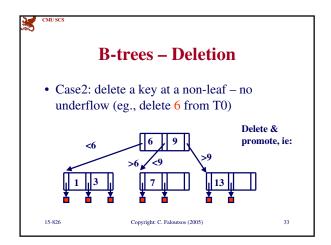


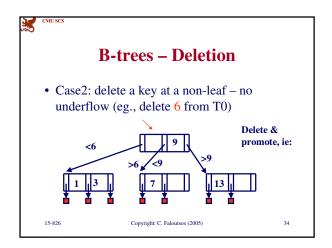


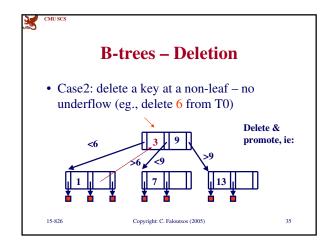


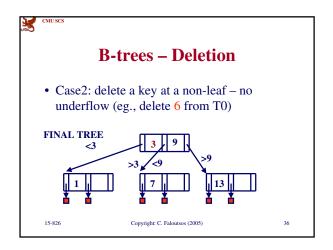














B-trees – Deletion

- Case2: delete a key at a non-leaf no underflow (eg., delete 6 from T0)
- Q: How to promote?
- A: pick the largest key from the left sub-tree (or the smallest from the right sub-tree)

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• Observation: every deletion eventually becomes a deletion of a leaf key

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