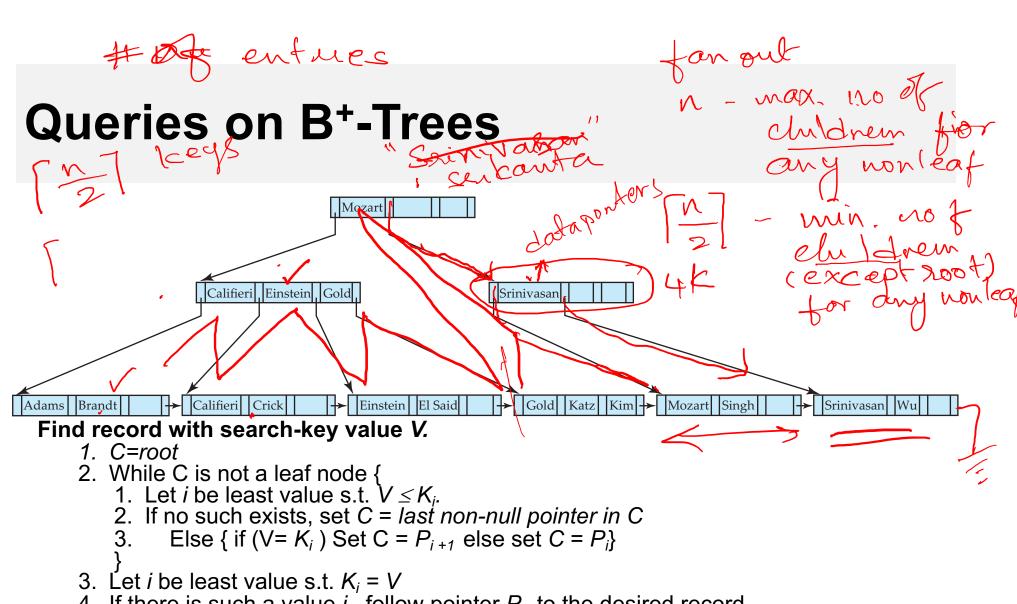
COL 362 & COL 632

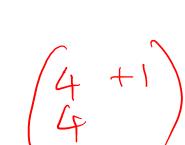
Indexing 03 Mar 2023



- 4. If there is such a value i, follow pointer P_i to the desired record.
- 5. Else no record with search-key value *V* exists.

Analysis of B⁺-trees

- No. of search keys: 1,000,000
- Block size: 4K
- Size of an index entry: 40B
- Max. no. of search keys per block:
- Max. height of the tree:
- No. of block accesses per query:

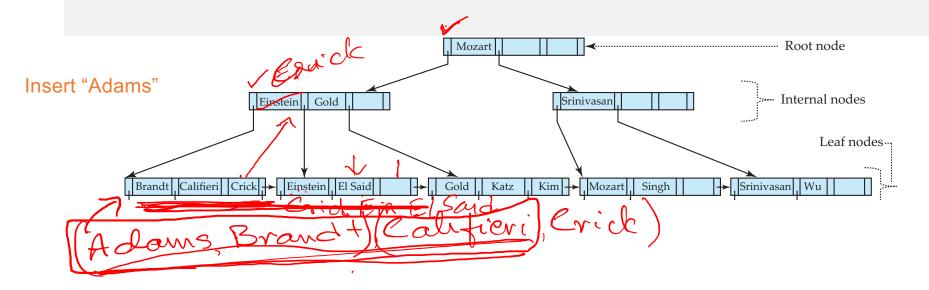


Key + Pointor

100 40B 21000 Log 50 (X106)

B+-trees - insertion

B⁺-Tree Insertion



B⁺-Tree Insertion Mozart Root node ··· Internal nodes Gold Srinivasan Einstein Leaf nodes... Brandt Califieri Srinivasan Gold Kim -Einstein El Said Katz Mozart Mozart Califieri Einstein Gold Srinivasan Einstein El Said Gold Katz Kim - Mozart Singh Adams Brandt Califieri Crick Srinivasan Wu

B+-Tree before and after insertion of "Adams"