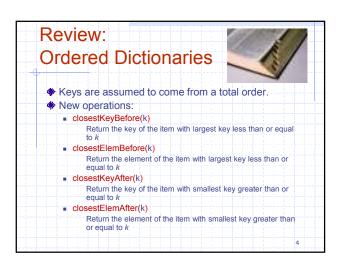
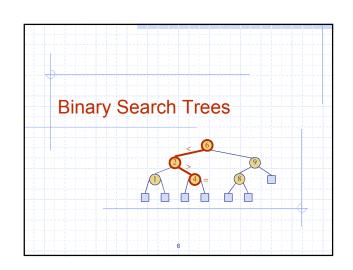


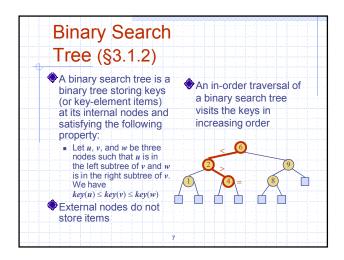
Wholeness Statement

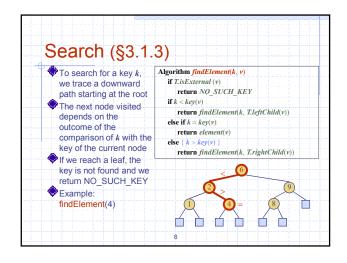
A dictionary allows users to assign keys to elements then to access or remove those elements by key. An ordered dictionary maintains an order relation among keys allowing access to adjacent keys while supporting efficient implementation of the dictionary ADT. Each of us has access to the source of thought which is a field of perfect order, balance, and efficiency.

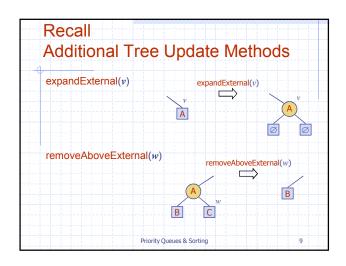


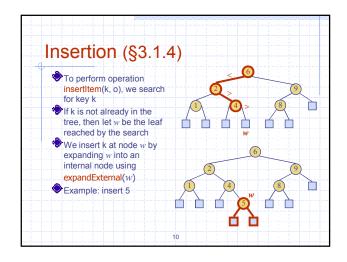
Ordered Dictionaries What are the disadvantages of a sorted sequence as the basis of an ordered Dictionary?

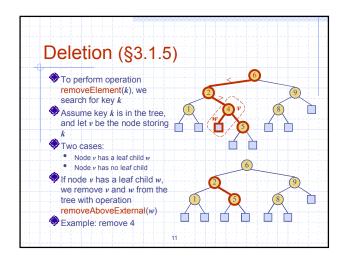


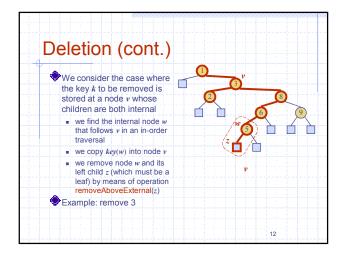


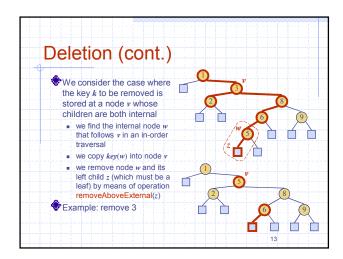


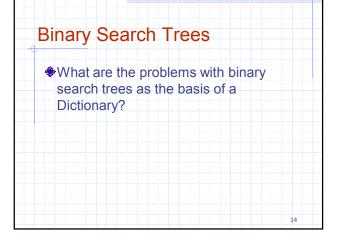


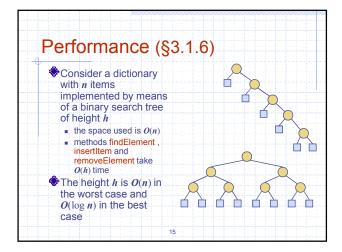




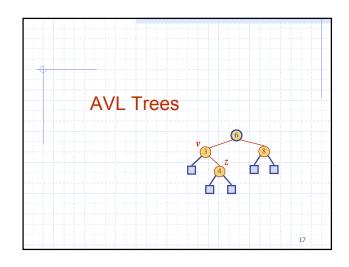


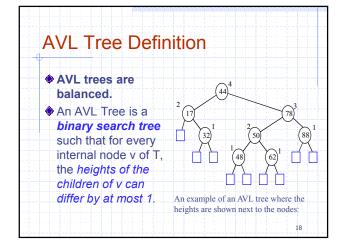


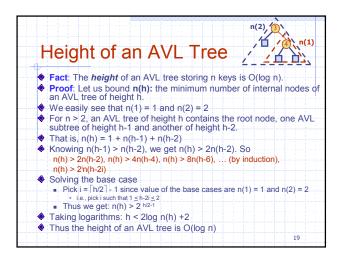


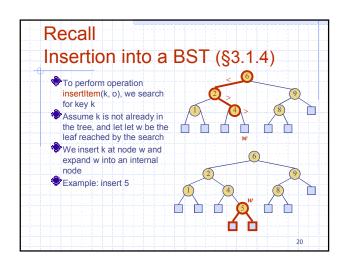


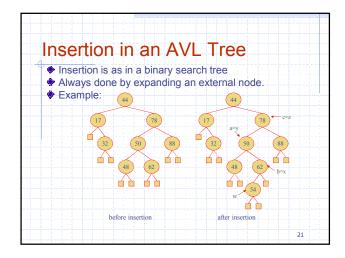
Main Point 1. A binary search tree is a binary tree with the property that the value at each node is greater than the values in the nodes of its left subtree (child) and less than the values in the nodes of its right subtree. When implemented properly, the operations (search, insert, and remove) can be efficiently accomplished. Such data structures reflect the following SCI principles: law of least action, principle of diving, perfect order.

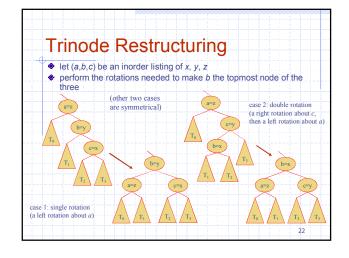


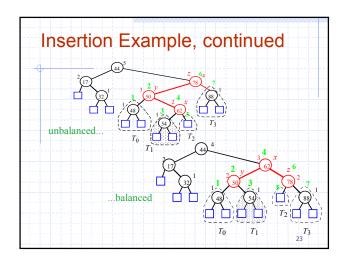


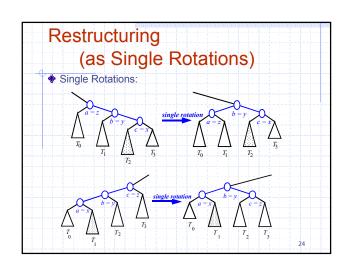


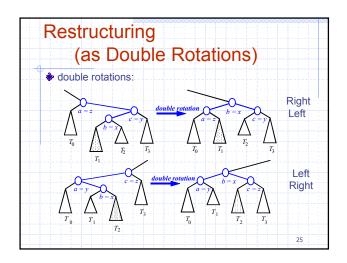


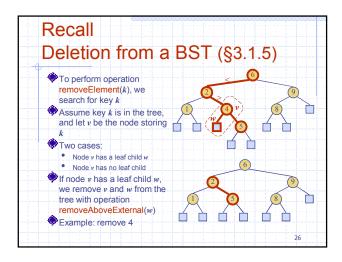


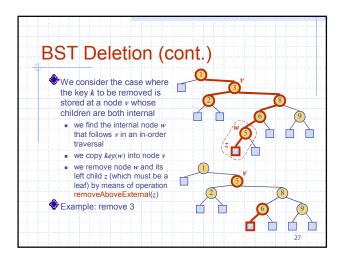


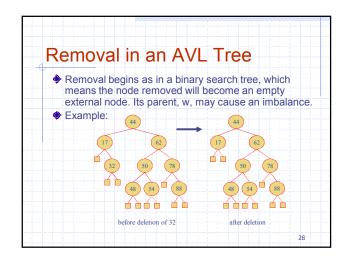


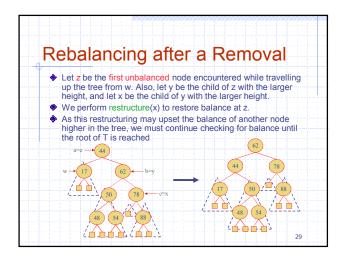


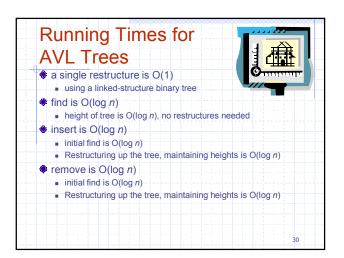






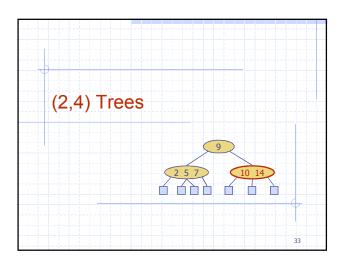


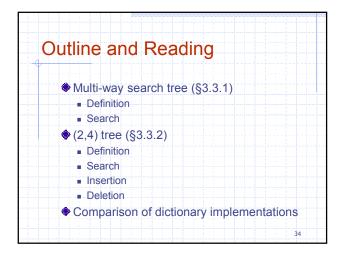


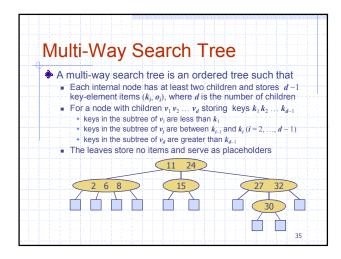


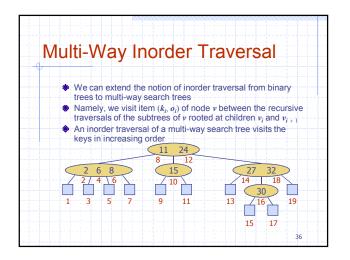
Advantages of Binary Search Trees When implemented properly, BST's perform insertions and deletions faster than can be done on Linked Lists perform any find with the same efficiency as a binary search on a sorted array keep all data in sorted order (eliminates the need to sort)

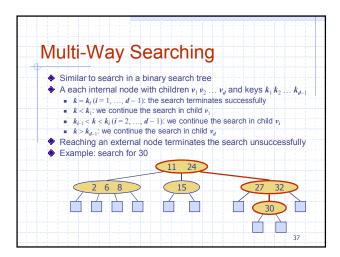
Main Point 2. The elimination of the worst case behavior of a binary search tree is accomplished by ensuring that the tree remains balanced, that is, the insert and delete operations do not allow any leaf to become significantly deeper than the other leaves of the tree. Regular experience of pure consciousness during the TM technique reduces stress and restores balance in the physiology. The state of perfect balance, pure consciousness, is the basis for balance in activity.

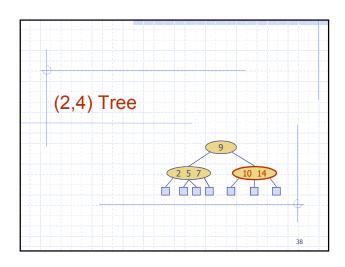


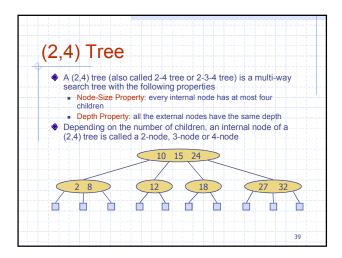


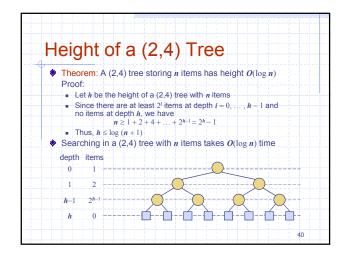


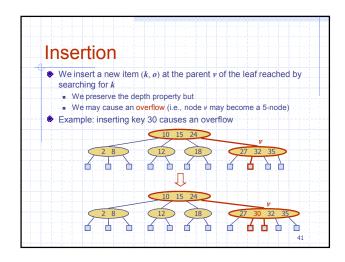


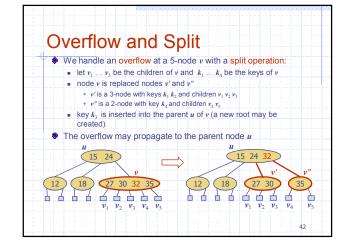


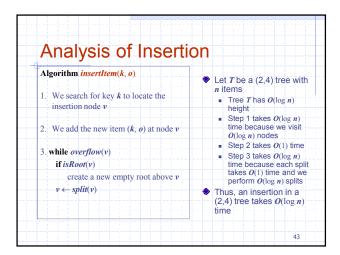


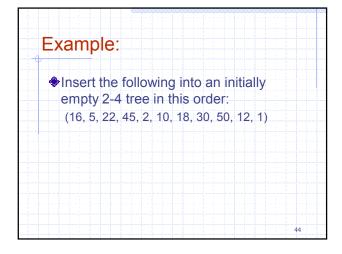


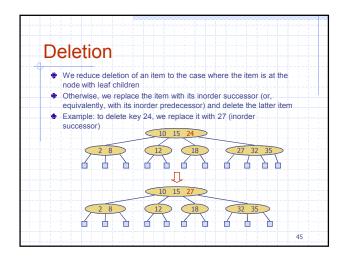


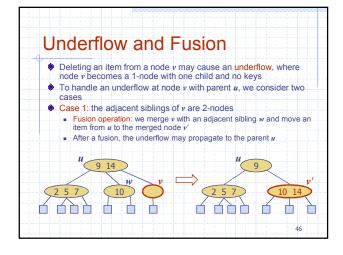


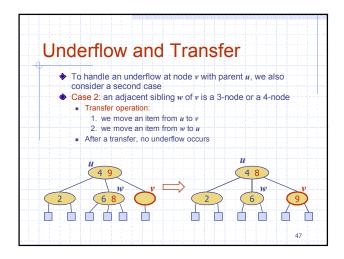


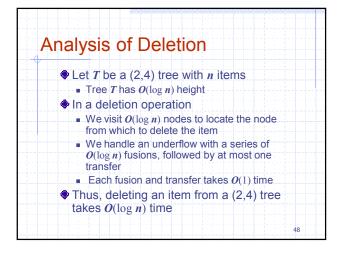












Main Point

 By introducing some flexibility in the data content of each node, all leaf nodes of a (2,4) Tree can be kept at the same depth. Stability and adaptability are fundamentals of progress and evolution in nature.

Connecting the Parts of Knowledge with the Wholeness of Knowledge

- In a (2,4) tree, each node has 2, 3, or 4 children and all leaf nodes are at the same depth so search, insertion, and deletion are efficient, O(log n).
- The insert and delete operations in a (2,4) tree are carefully structured so that the activity at each node promotes balance in the tree as a whole. Each node contributes to the dynamic balance by giving and receiving keys during the splitting and fusion of nodes.

 Transcendental Consciousness is the state of perfect balance, the foundation for wholeness of life, the basis for balance in activity.

Impulses within Transcendental Consciousness:
 The dynamic natural laws within this unbounded field create and maintain the order and balance in creation.

Wholeness moving within itself: In Unity
Consciousness, one experiences the dynamics of pure
consciousness that gives rise to the laws of nature, the
order and balance in creation, as nothing other than
one's own Self.

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