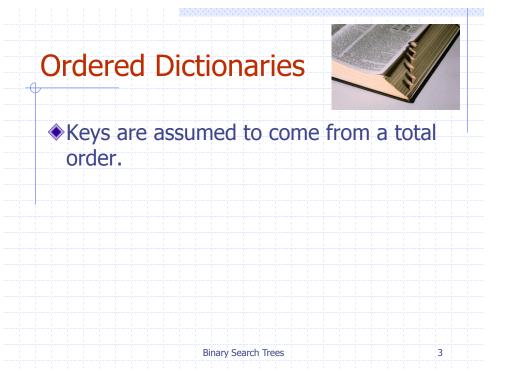


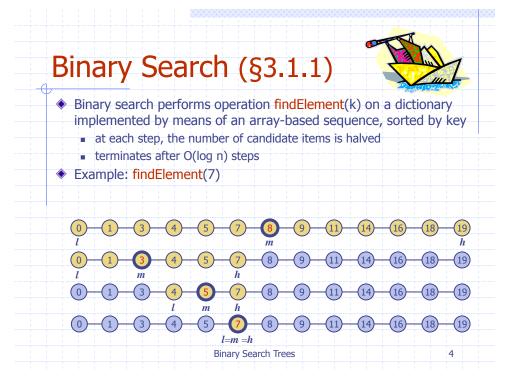
Definitions:

- 2-tree is a tree in which every vertex except the leaves has exactly two children
- Binary tree is an ordered tree in which every node has at most two children
- Binary tree is proper if each internal node has two children

Binary Search Trees

2





Binary Search Tree (§3.1.2) A binary search tree is a An inorder traversal of a binary tree storing keys binary search trees (or key-element pairs) visits the keys in at its internal nodes and increasing order satisfying the following property: ■ Let u, v, and w be three nodes such that u is in the left subtree of v and w is in the right subtree of v. We have $key(u) \le key(v) \le key(w)$ External nodes do not store items **Binary Search Trees**

