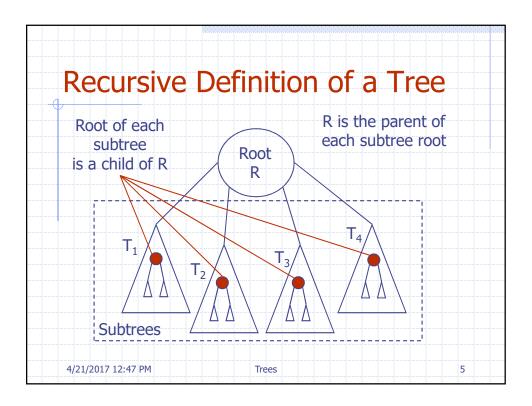
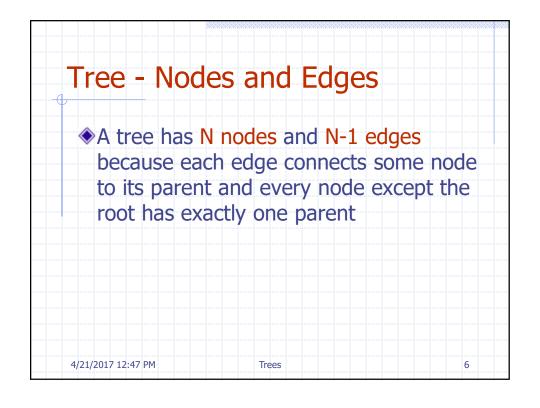
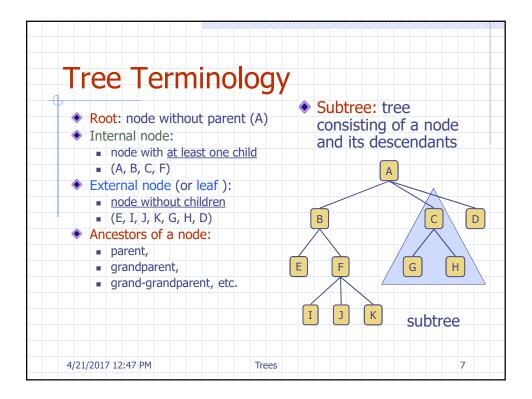
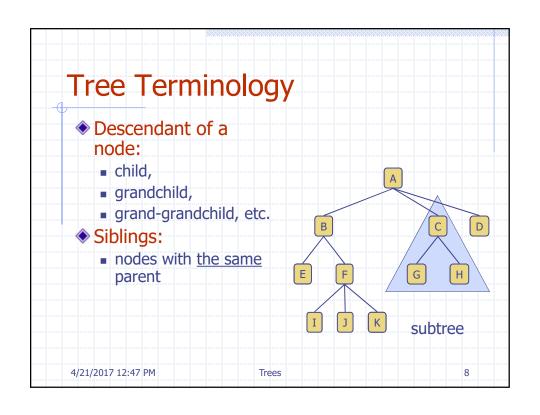


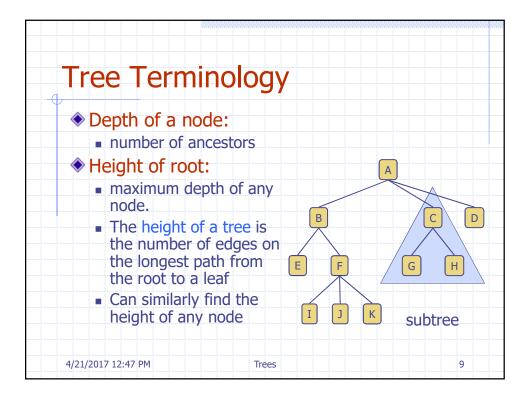
Recursive Definition of a Tree A tree is a collection of nodes One node is called the root A collection of nodes can be empty, otherwise a tree consists of a node called a root (R) and zero or more nonempty subtrees each of whose roots are connected by an edge to the root

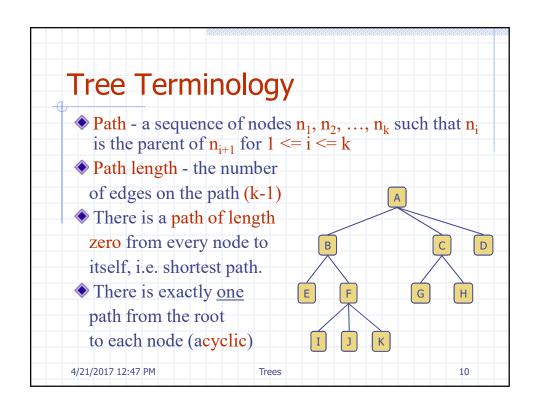


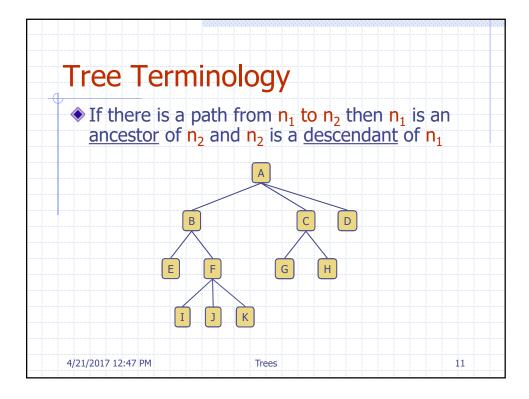


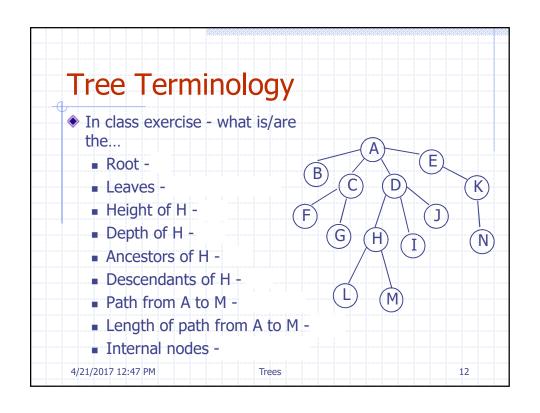


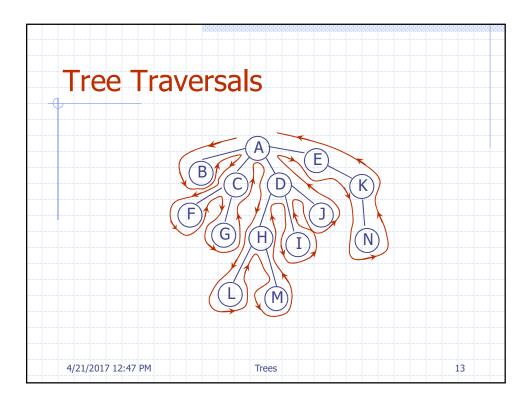


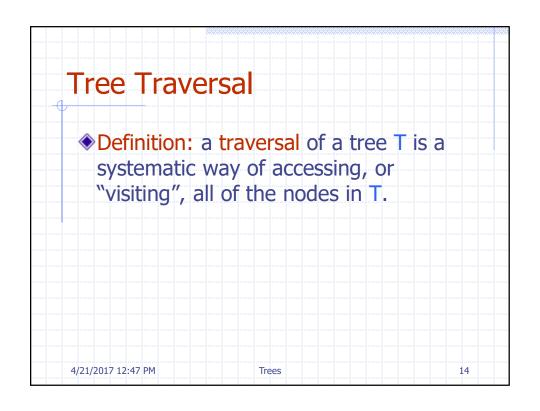












Preorder Traversal In a preorder traversal, a node is visited before its descendants The preorder listing of the nodes of T is the root n of T followed by the nodes of T₁ in preorder, then the nodes of T₂ in preorder, and so on up to the nodes of Tk in preorder. Intuition: List the node the first time it is passed

