	Outline
CSCI 136: Data Structures and Advanced Programming	Tree traversals
Lecture 22-1	Computing tree height
Trees, part 2	
Instructors: Dan & Bill Williams	
	Binary tree traversals
Binary tree traversals	Suppose you are asked to write an Iterator <t> for a binary tree. What order do you choose?</t>
	Remember that tree nodes store data (T). A traversal corresponds with the order that data is returned.





Binary Tree Height

Let's think about some corner cases.

What is the height of a tree with just one node?

The **height** of a tree is the length of the longest path between the root and any leaf.

Height of tree = 0

Binary Tree Height

Let's think about some corner cases.

What about the empty tree?



The **height** of **a tree** is the length of the longest path between **the root** and **any leaf**.

Height of tree = -1



Height of tree = 3

Recap & Next Class

This lecture:

Tree traversals

Computing tree height

Next lecture:

Binary Search Trees