Tree Terminology

• **Node** or **Vertex**: like a linked list, a fundamental building block of a tree.

• **Edge** or **Link**: a connection between two nodes. In a tree, there is exactly one edge between two nodes.

• **Root**: the only node in a tree that has no nodes above it.

• **Path**: an ordered list of nodes that are connected by edges.

• **Children** of a node n: the set of nodes below n and connected to n by an edge.

• **Parent** of a node n: the node above n and connected to n by an edge.

• **Siblings**: nodes with the same parent.

• **Descendants** of a node n: children of n + descendants of the children. Basically, all nodes below n that are somehow connected to it.
**Tree Terminology**

- **Subtree**: a node and its descendants.
- **Leaf node**: a node with no children.
- **Internal node**: any node that has children. That is, any node that's not a leaf node.
- **Level** of a node: number of edges between the node and the root.
- **Height** of a tree: maximum level of any node of the tree.