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CMSC210 C4





































## **Distinguishing Nodes**

- Leaf: a vertex with no children
- Child of *v*: *u* such that *v* is a parent of *u*
- Parent of *v*: an ancestor of *v*, *u*, such that  $(u, v) \in E$
- Ancestor of *v*: *u* such that there is a path between *v* and the root through *u*
- Descendant of *v*: *u* such that *v* is an ancestor of *u*
- Height: the maximum number of nodes among the paths between a leaf and the root CMSC210 C4 25







