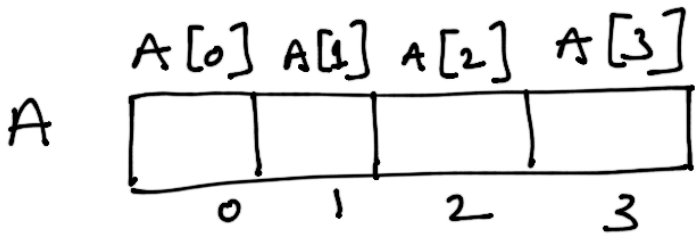
Data Structures

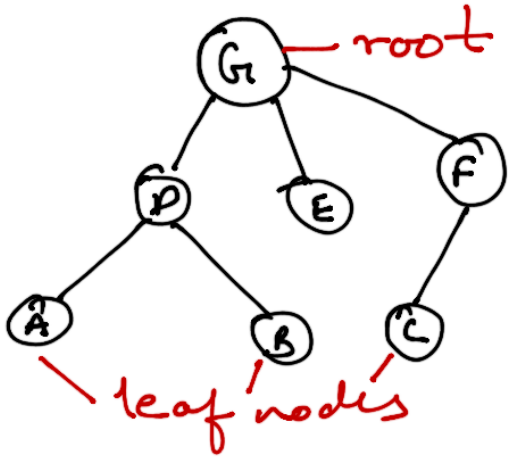
Linear

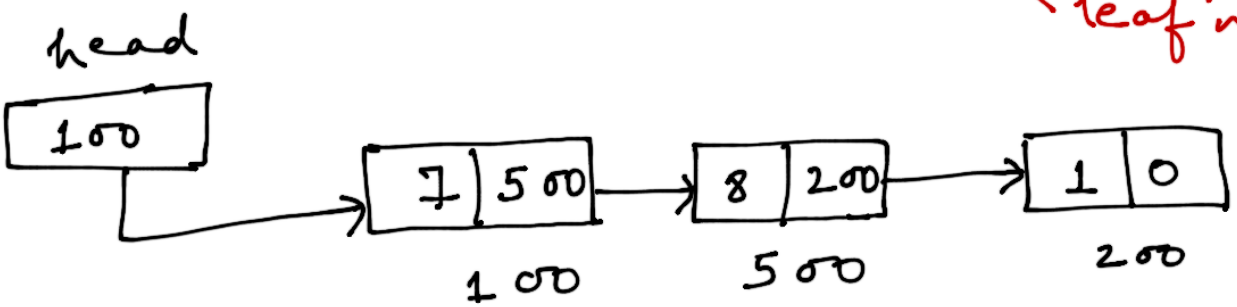
{arrays, linked list, stacks, & queues}

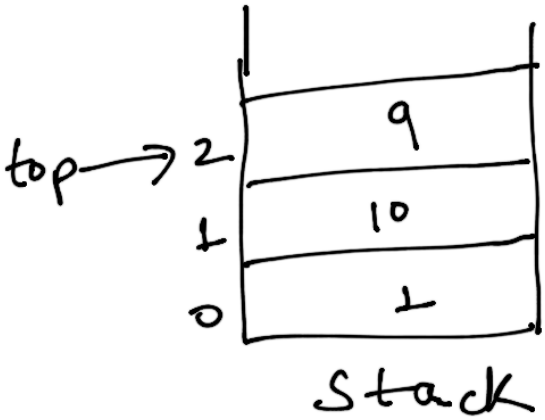
Non-linear

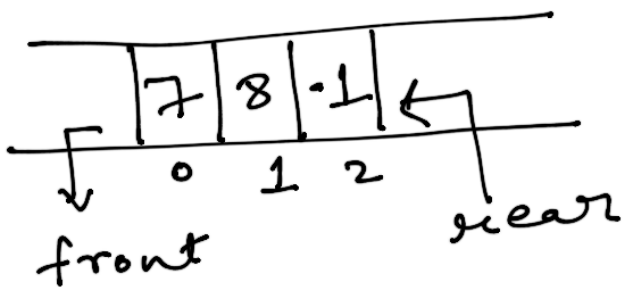
{trees, Graphs}





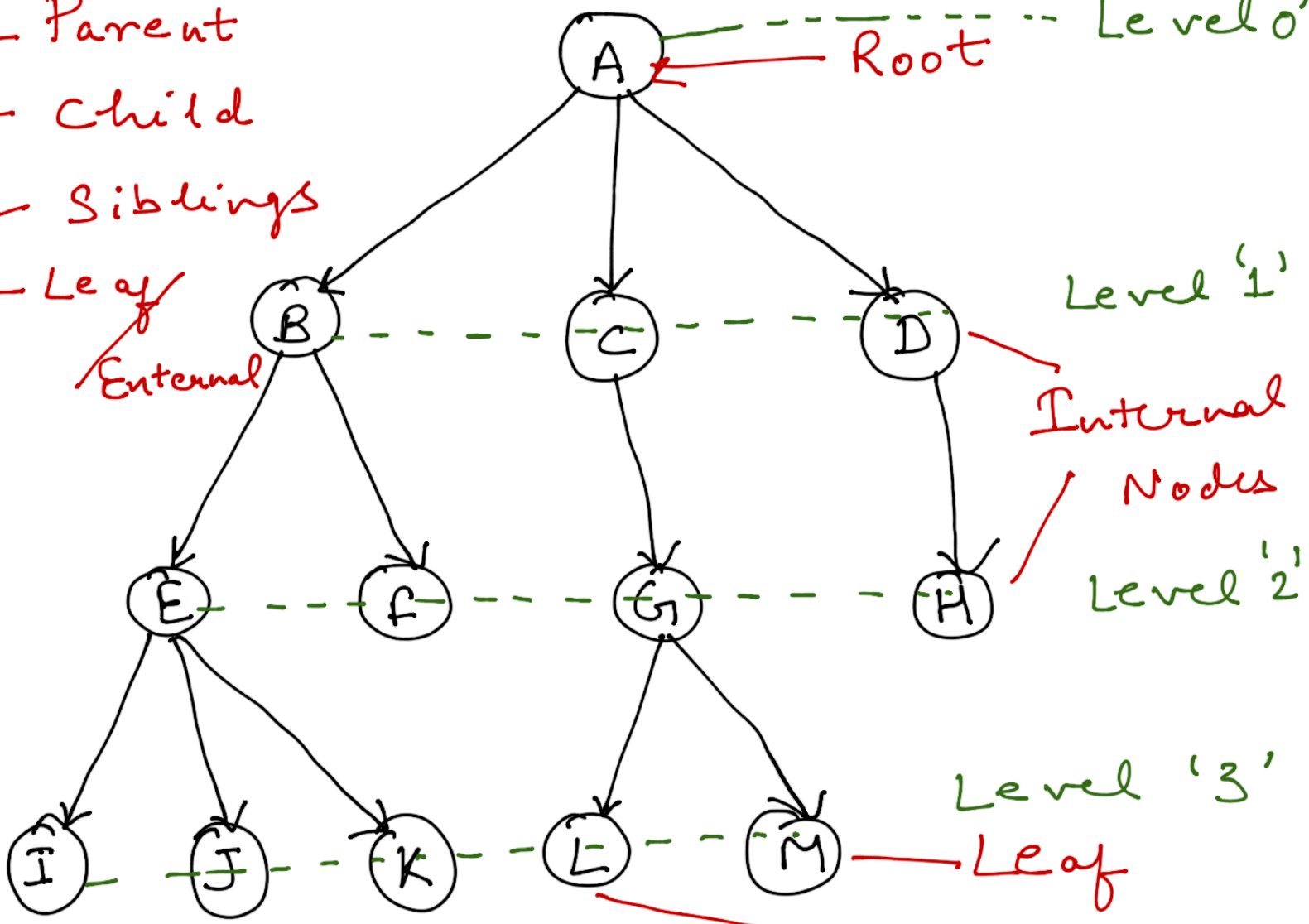






Terminology

- Parent
- Child
- Siblings
- Leaf



- Path
- Predecessor / Successor
- Ancestor / Descendant
- Sub-Tree
- Height of node
  (No. of edges in longest path from node to leaf)
- Degree
  (No. of children)
- Degree of tree
  (Max. degree among nodes)
- Depth of node
  (Edges from Root to node)

Root =

Leaf Nodes =

Internal Nodes =

Child of G1 =

Parent of G1 =

Predecessor of G1 =

Successor of G1 =

Ancestor of G1 =

Descendant of G1 =

Height of G1 =

Depth of G1 =

Level of G1 =

Degree of Tree =

Height of Tree =