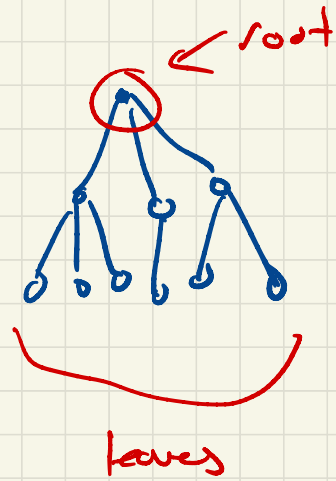
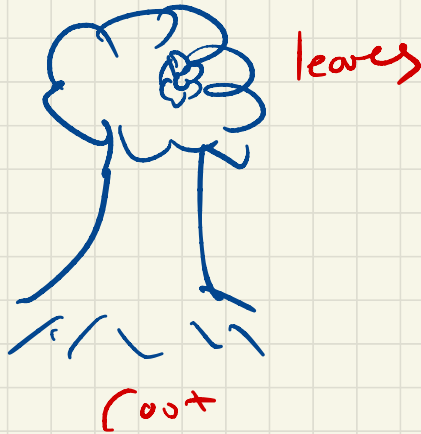
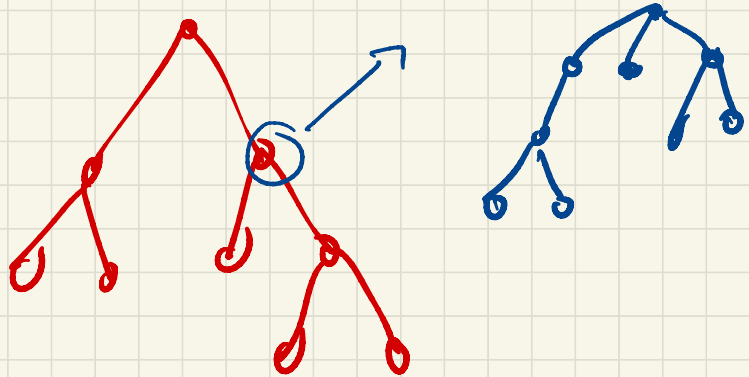
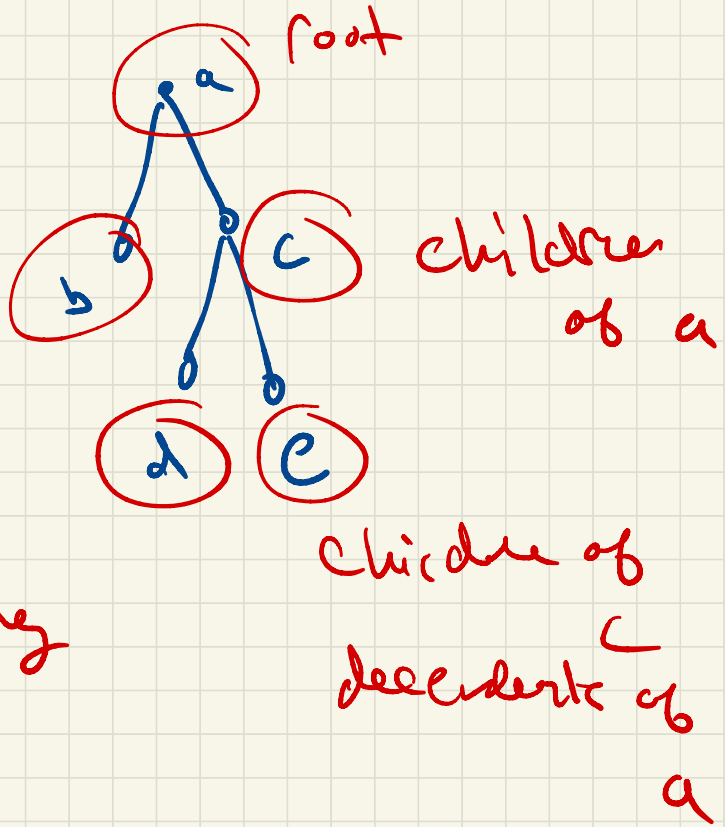


Rooted Trees



Designate a special vertex to be the root

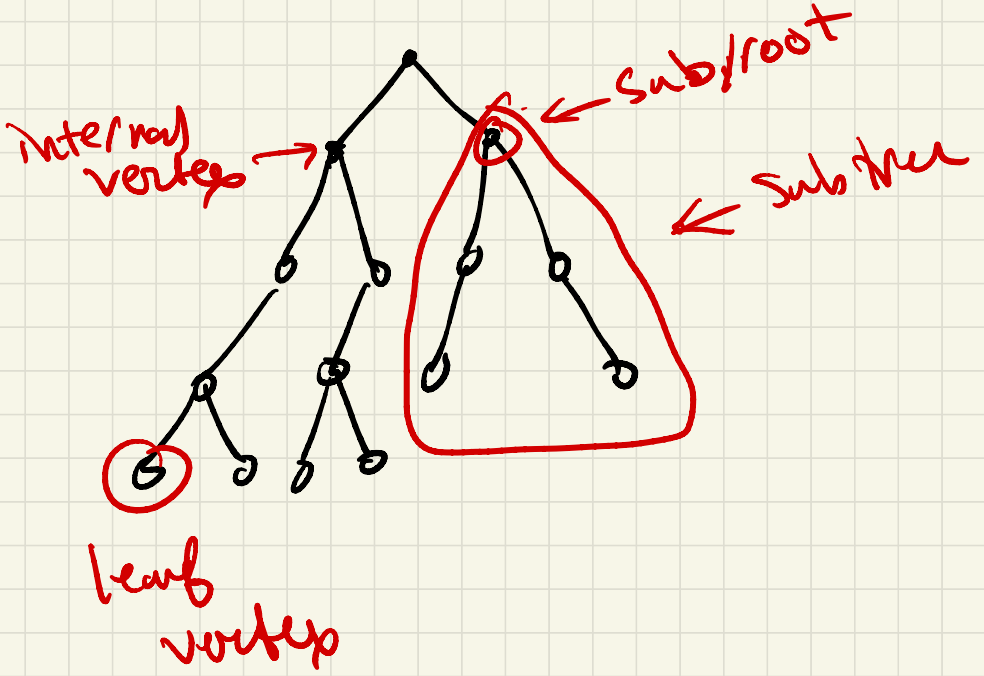




b and c
are siblings

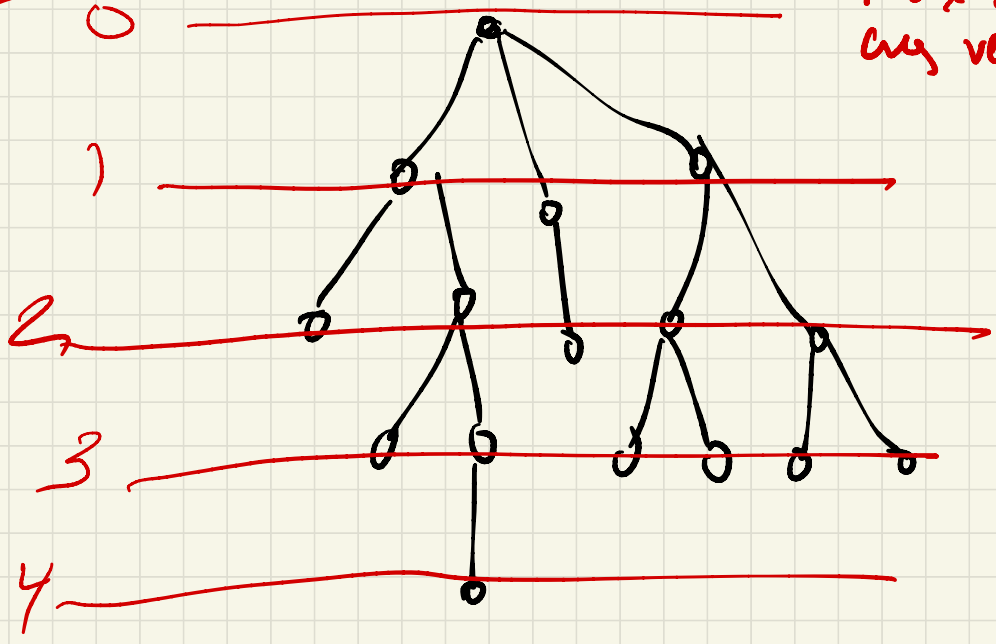
d and e
are siblings

b d e are leaves

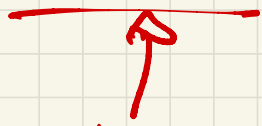


2 | height

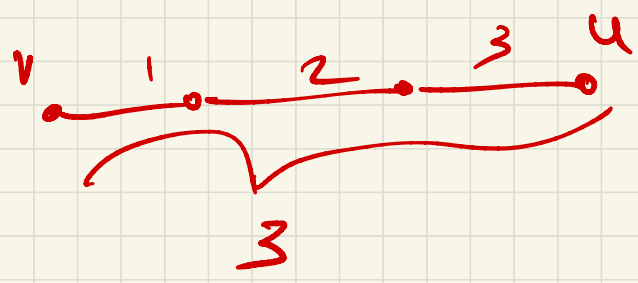
height
Max level
any vertex



Level # edges to reach root

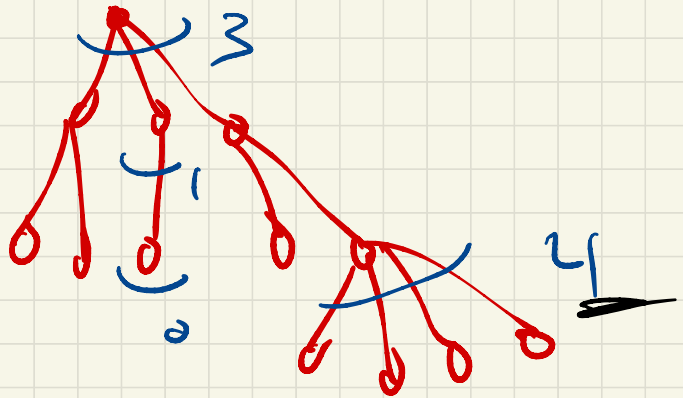


length of the path between
vertices



Branching Factor

of a vertex

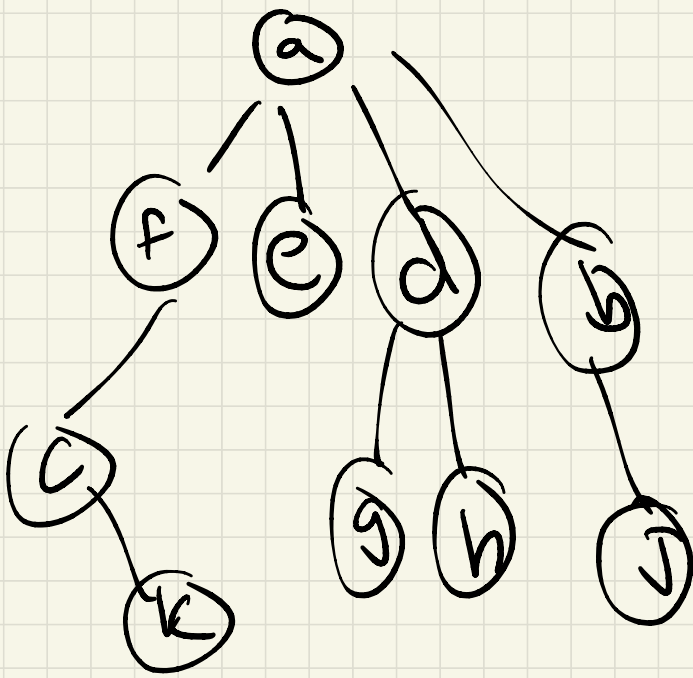


Branching Factor of Tree

is the max

branching factor of vertex

4



internal vertex
a, f, d, b, c

leaves

k, e, g, h, j

siblings of f

e, d, b

level of j

2

height of tree 3

height of subtree w/b

1

height of subtree w/e

0

Branching factor

4