Joseph -> graphis a non-linear data Structure, with two major elements, vertices and edges Where vertices referencent Some real life entity and edges represent the relationship between them. graphs can have cayele

Trees - Traces are non-linear data Structure
which represent hierarchy based information.
which represent hierarchy based information. Also trees are those graphs which denot have
a lucle
acyclic > undueted
-> connected

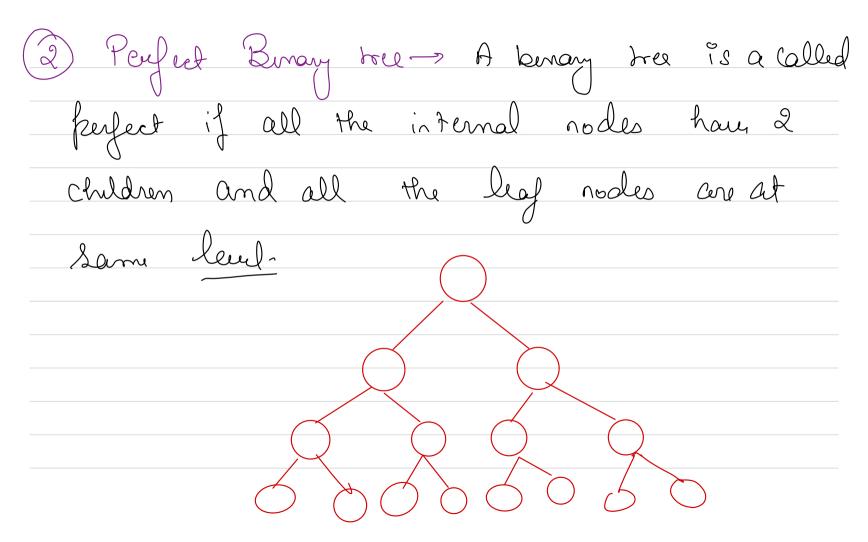
() trees represent, parent - child relationship > hous are recursem data structu -> Based on number of children Buray hels

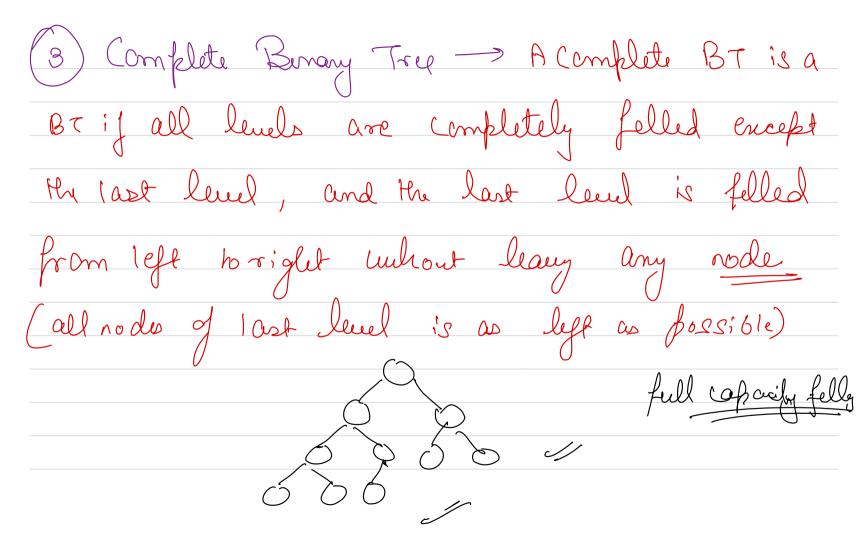
Trernay hrees

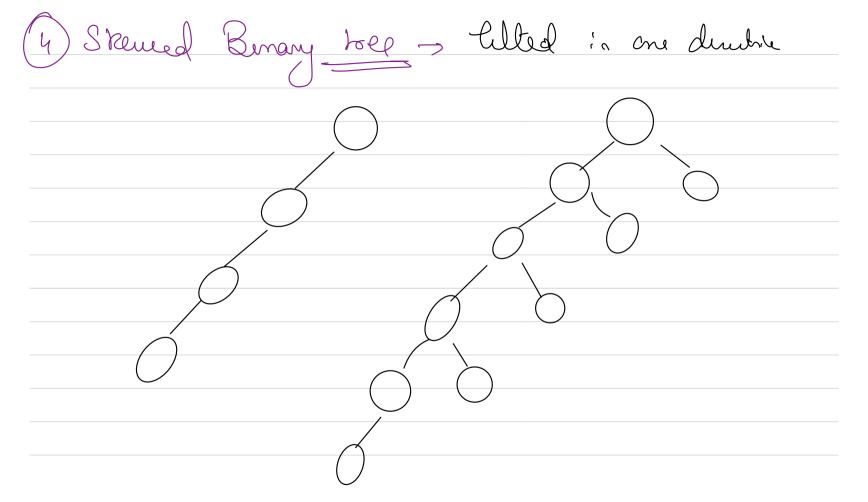
guadrany tole -> n-ary tree (generie toee)

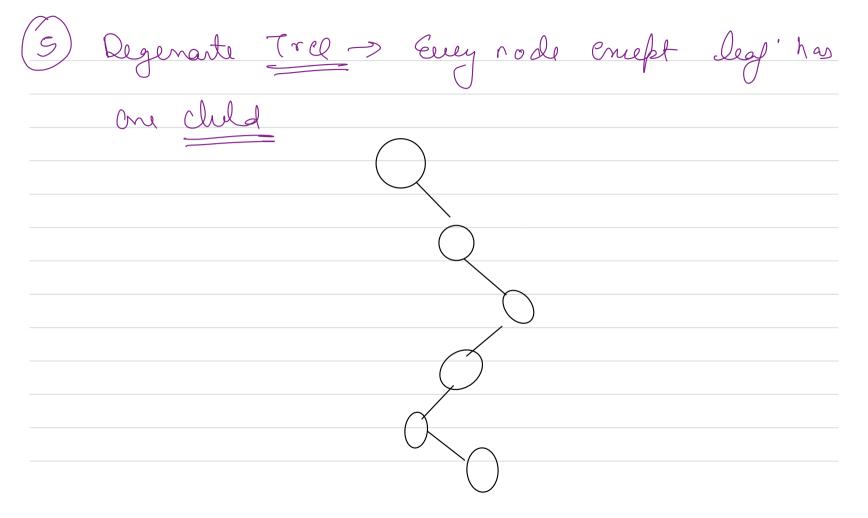
5 Burary Tree > Phese are defend as those roces where a parent can have atmost I Children level node / Dinay help root - a node aultear Jew 1 farel Jue 2 llef node - a node well Och

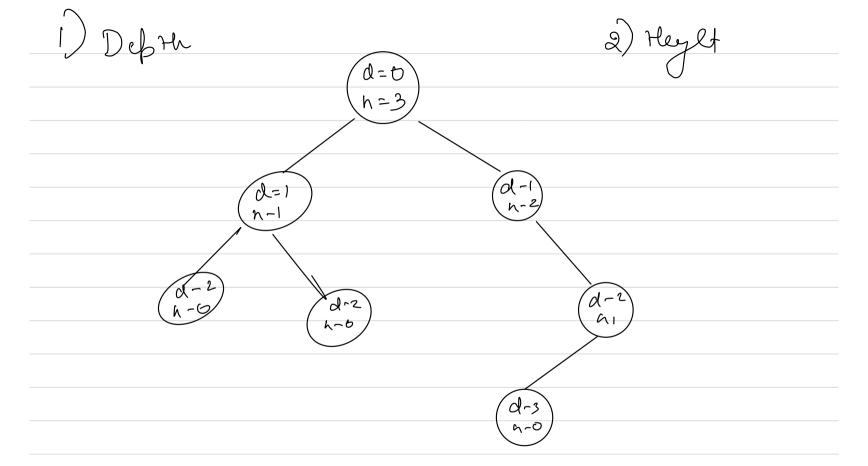
Different Types of benay trees-1) full bunary ree > In a full know hel Cuery node has culm O or 2 children.

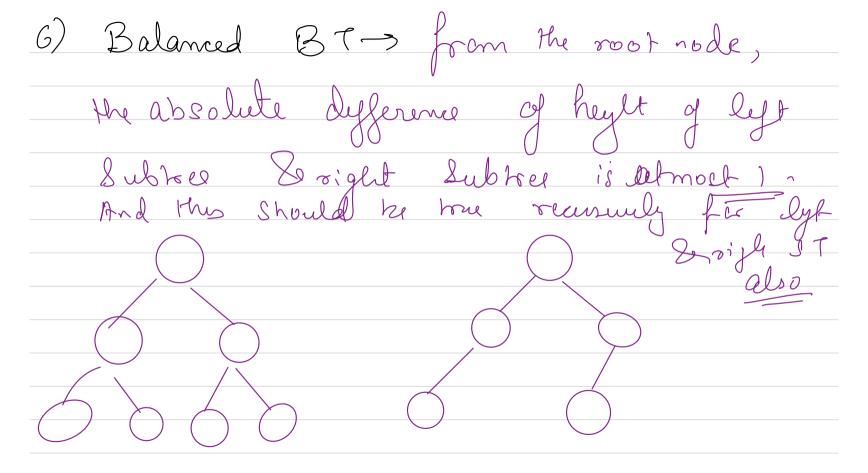




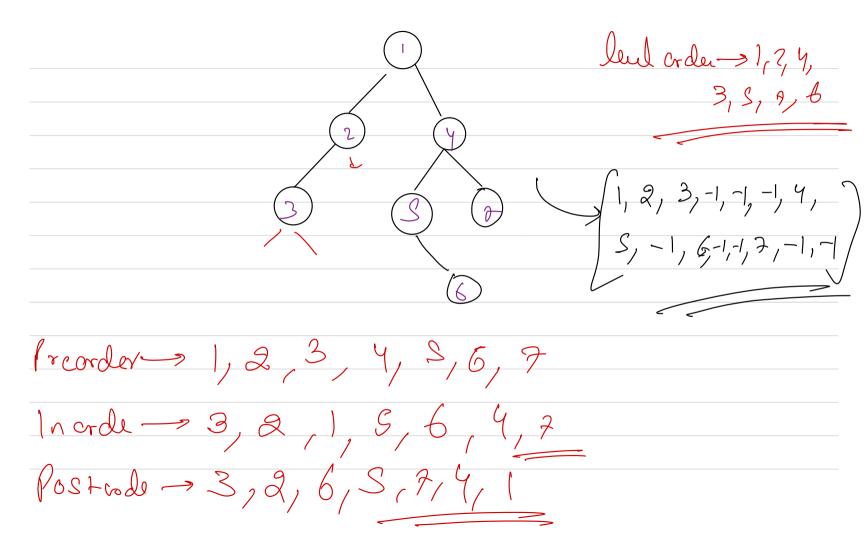








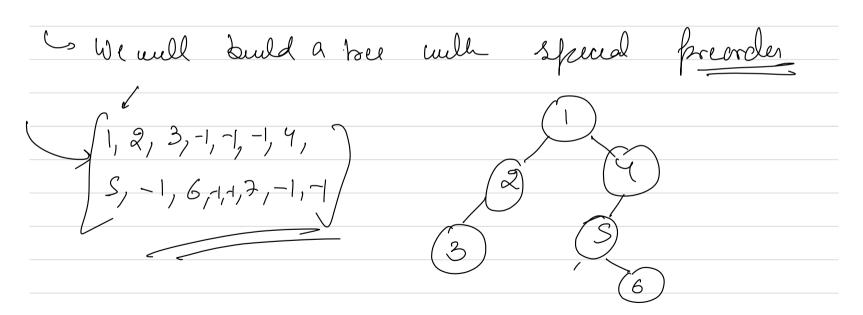
How to read a Tree?? - Prevoler toquessal In order toauerel - postooder travenal Priceden -> 1) Read the node Postadi - LST 2) Rad the LST 3) Read the RST RST No [nooder - LST node K27

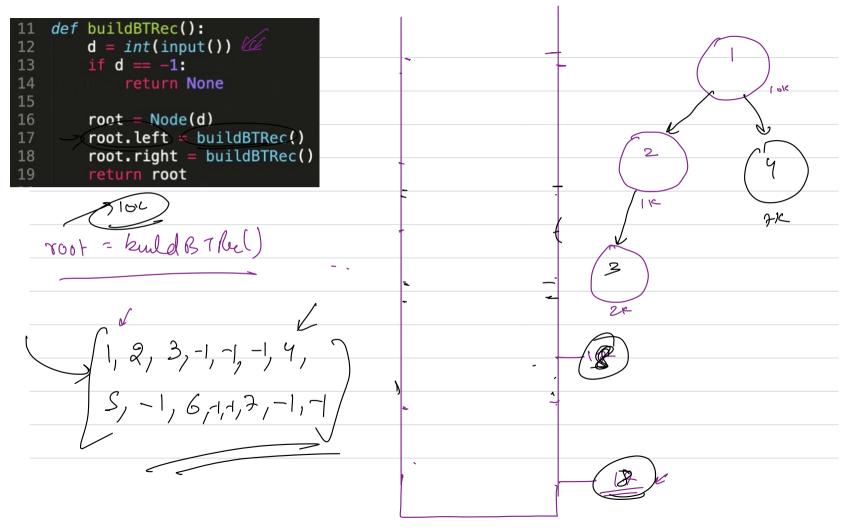




data lyfclud rig Holld







Woite a function 10 calculate heyet of a

Tilt of a Binary Tree > 97 is the absolute difference bythe Sum of all left Subtrer avoles So all rost nodes. if a node does it have a left child the sung 257 is considered O, & same foo or gla. Cruen a BT, return the sum of every node's (1) (2) (3) till.

