Trees 1 (Introduction)

Introduction to Trees

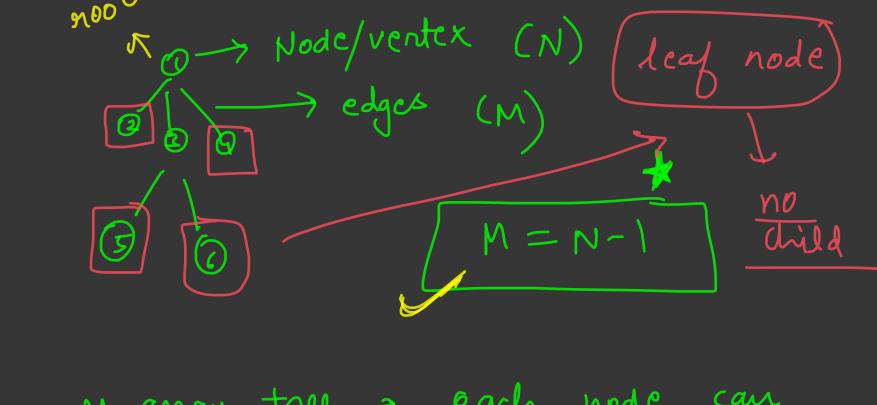
- Basic terminologies in trees
- Properties of trees
- How to store a tree? How will the input be given?
- Traversal techniques in Trees
 - **Depth First Search (DFS)**
 - o **B**readth **F**irst **S**earch (BFS)
- Questions
 - Given a tree, give me the height of the tree

 Subordinates
 - Given root node and another node x, print path root -> x if exists

Trecs ? generic tree

Trecs ? lutewiew

generic tree ->

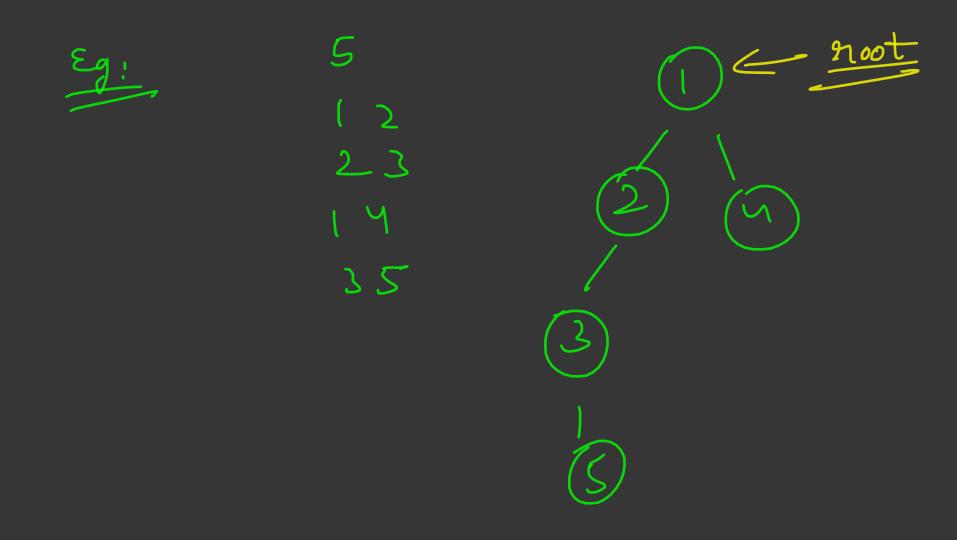


N-anay the - each node can have n number of children

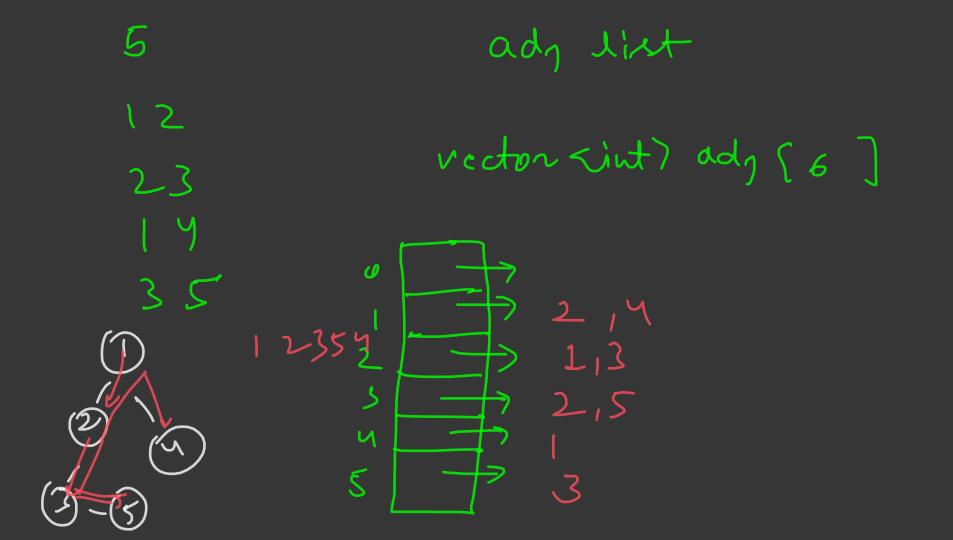
> No ryde in trel children Anceston

How to store a tree? How will be the input given?

> N-> nodes uv J N-1 lines



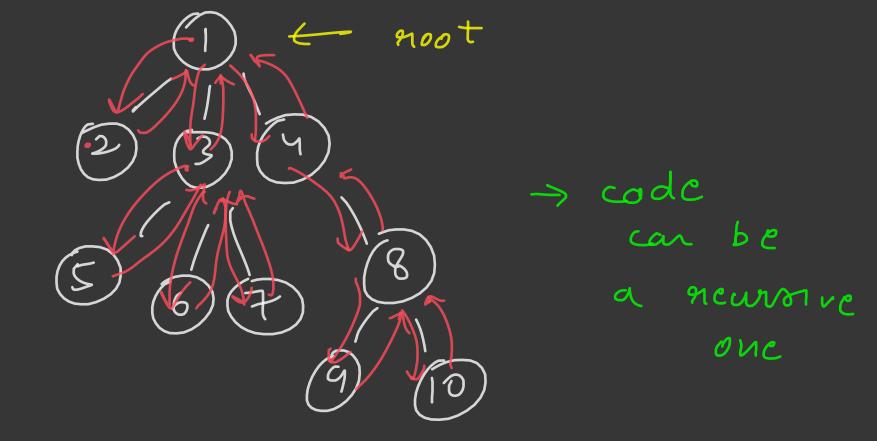
int an[n+1] vector (int) an [n+1]; rector rector

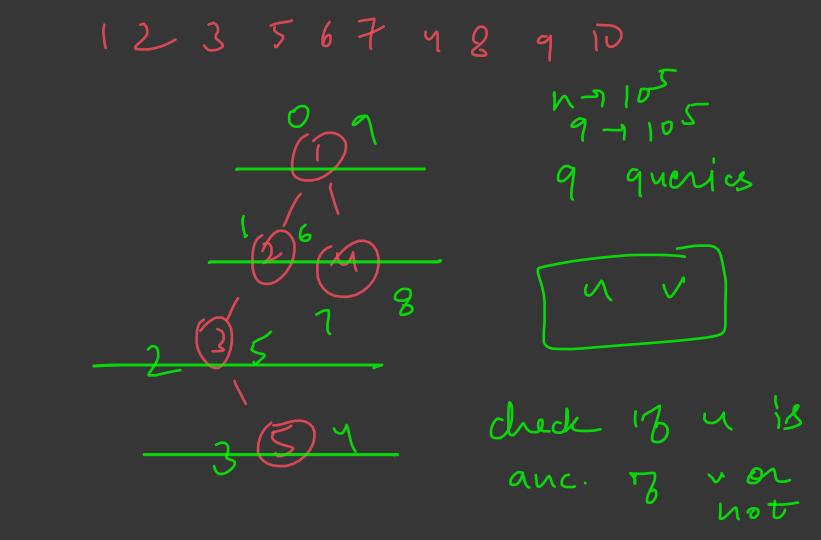


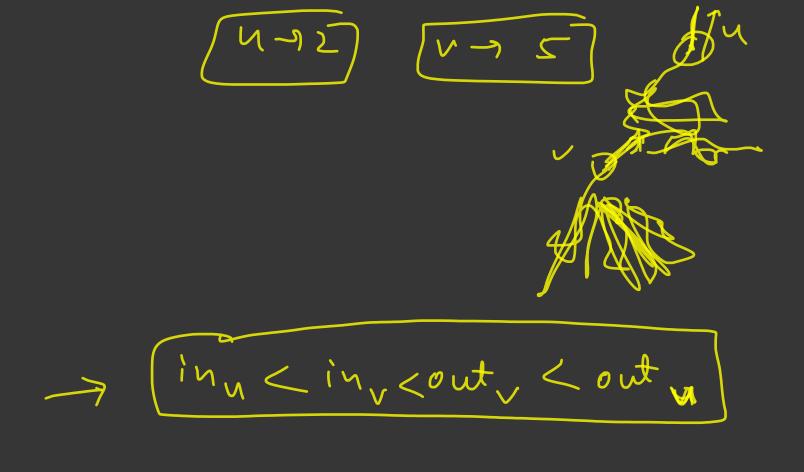
Traversal > DFS -> Depth first search

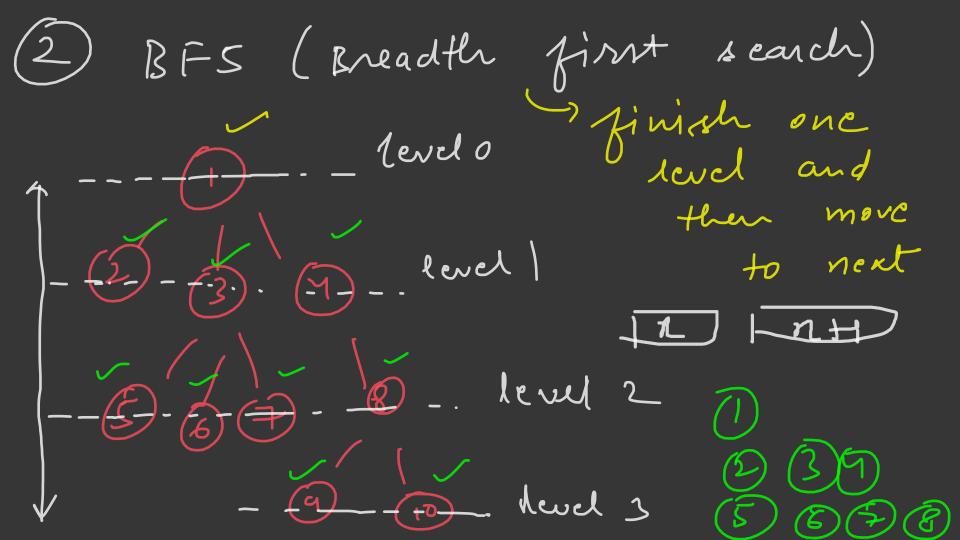
BFS -> Breadth first search

DDFS - Defth first search









9 10

given a tree, tell me the height of the tree.

subtral(2) = subtrees

