

Sunday, 20 March  
16

# Crux

## Lecture - 17

Data Structures - 5

Trees -2

Nidhi Agarwal



# Last Class Doubts ?

# Last Class Problems ?

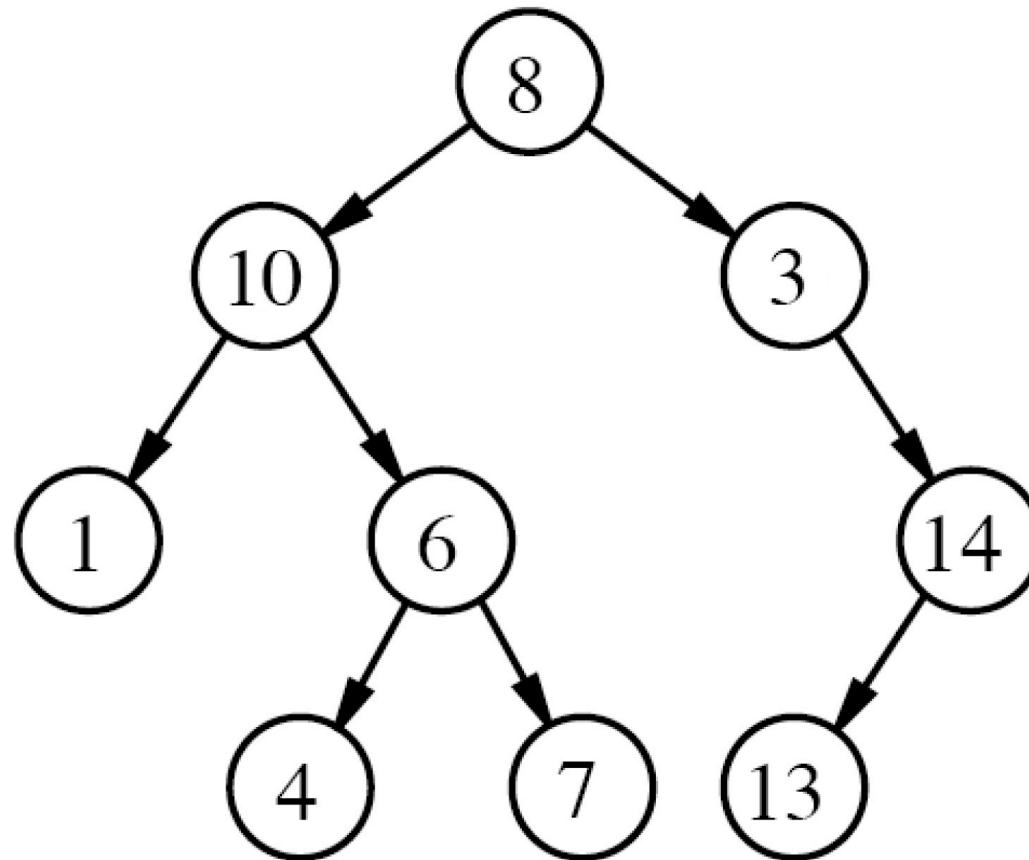
A tree walk or traversal is a way of visiting all the nodes in a tree in a specified order

# Lets code these tree traversals

- Preorder Traversal
- Postorder Traversal

# Binary Trees

# Binary Trees



# Binary Tree Node

```
Public class node{  
    int data;  
    node left;  
    node right;  
}
```



# Lets see how to input and output Tree

- Write a function to take tree as input from user
- Print out a tree

# Lets discuss a problem

- Height of the tree
- Find diameter of a binary tree

# Your Turn

- Find a node in Binary Tree
- Mirror a binary tree

# Another Traversal for Binary Trees

- Inorder Traversal

# Building tree using Preorder and Inorder traversal

# Building tree using Postorder and Inorder traversal

# Building tree using Preorder and Postorder traversal



Thank You !! 😊

Nidhi Agarwal

[nidhi@codingblocks.com](mailto:nidhi@codingblocks.com)