

Tuesday, 25 August  
15

# Crux

## Lecture -15

Data Structures -5

Trees -2

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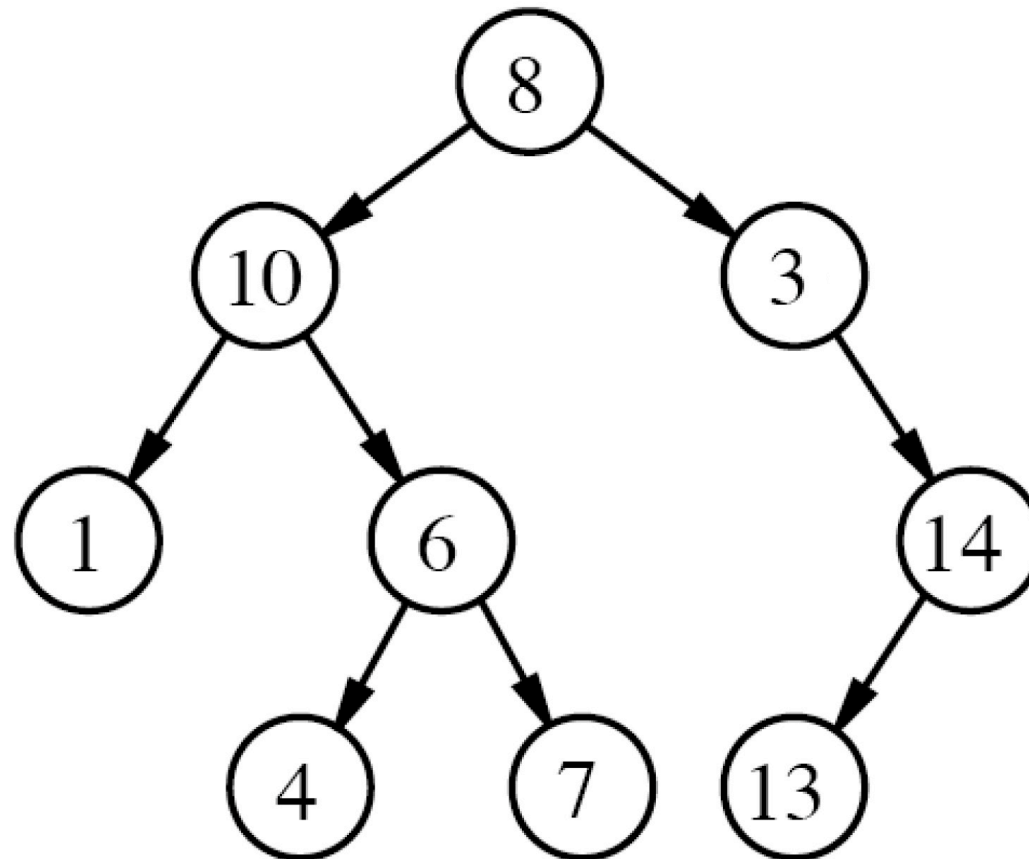
A tree walk or traversal is a way of visiting all the nodes in a tree in a specified order.

# Lets code these tree traversals

1. Preorder Traversal(Recursive)
2. Preorder Traversal(Iterative)
3. Postorder Traversal
4. Levelorder 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

1. Write a function to take tree as input from user
2. Print out a tree

# Lets discuss a problem

1. Find diameter of a binary tree



# Your Turn

1. Find a node in Binary Tree
2. Mirror a binary tree

# Another Traversal for Binary Trees

## 1. 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!

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