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Crux Lecture -16

Data Structures -4

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

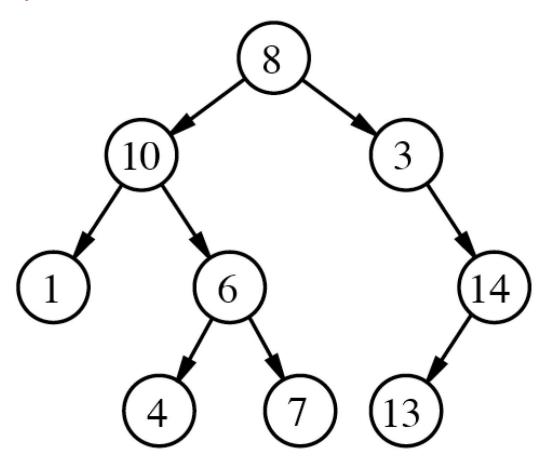
- Preorder Traversal(Recursive)
- Preorder Traversal(Iterative)
- Postorder Traversal
- Levelorder Traversal



Binary Trees



Binary Trees





Binary Tree Node

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



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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