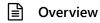
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Introduction to Data Structure

# **Binary Tree**



A tree is a frequently-used data structure to simulate a hierarchical tree structure. Each node of the tree will have a root value and a list of references to other nodes which are called child nodes. From graph view, a tree can also be defined as a directed acyclic graph which has N nodes and N-1 edges. A

### Traverse A Tree

In the introduction, we have gone through the concept of a tree and a binary tree. In this chapter, we will focus on the traversal methods used in a binary tree. Understanding these traversal methods will definitely help you have a better understanding of the tree structure and have a solid foundation for the

### Solve Problems Recursively

In previous sections, we have introduced how to solve tree traversal problem. And we tried to solve preorder, inorder and postorder traversal recursively. Actually, recursion is one of the most powerful and frequently-used methods for solving tree related problems. We are going to introduce two typical

#### Conclusion

After finishing the previous chapters, you should be familiar with binary trees and be able to solve basic problems related to them. In this chapter, we are going to provide you with more exercises to help you feel more confident with this topic.

## Introduction







A tree is a frequently-used data structure to simulate a hierarchical tree structure.

Each node of the tree will have a root value and a list of references to other nodes which are called child nodes. From graph view, a tree can also be defined as a directed acyclic graph which has N nodes and N-1 edges.

A Binary Tree is one of the most typical tree structure. As the name suggests, a binary tree is a tree data structure in which each node has at most two children, which are referred to as the left child and the right child.

By completing this card, you will be able to:

- 1. Understand the concept of a tree and a binary tree;
- 2. Be familiar with different traversal methods;
- 3. Use recursion to solve binary-tree-related problems;

#### Traverse A Tree

✓ A Traverse a Tree - Introduction	
☐ ☐ Binary Tree Preorder Traversal	
☐ ☐ Binary Tree Inorder Traversal	
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☐ A Binary Tree Traversal - Solution	•
🗹 A Level-order Traversal - Introduct	
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✓ A Binary Tree Level Traversal - Solu	<b>₽</b>
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Solve Problems Recursively	$\circ$
✓ A Solve Tree Problems Recursively	
☐ ☑ Maximum Depth of Binary Tree	
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☐ ⓓ Path Sum	
☐ ☑ Count Univalue Subtrees	•
Conclusion	
☐ ⓓ Construct Binary Tree from Inord	
☐ ☑ Construct Binary Tree from Preor	
☐ ☑ Populating Next Right Pointers i	
☐ ☑ Populating Next Right Pointers i	
☐ ☑ Lowest Common Ancestor of a B	
☐ ☑ Serialize and Deserialize Binary T	
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