

Binary Search Tree



Overview

A Binary Search Tree is a special form of a binary tree. The value in each node must be greater than (or equal to) any values in its left subtree but less than (or equal to) any values in its right subtree.



Introduction to BST

In this chapter, we will introduce what is a binary search tree. By understanding the properties of a binary search tree, you should be familiar with the properties of a binary search tree.



Basic Operations in BST

In this chapter, we are going to introduce three basic operations in a BST. After finishing the previous chapters, you should be familiar with the properties of a binary search tree.



Conclusion

After finishing the previous chapters, you should be familiar with the properties of a binary search tree.



Appendix: Height-balanced BST

As we mentioned before, the complexity of operations in a BST varies according to the height of the tree. In this appendix, we will introduce the concept of a height-balanced BST.

Introduction



A **Binary Search Tree** is a special form of a binary tree. The value in each node must be **greater than** (or equal to) any values in its **left subtree** but **less than** (or equal to) any values in its **right subtree**.

We'll go through this definition more specifically in this chapter and provide you some exercise related to the binary search tree.

The goal of this card is to:


1. Understand the **properties** of a binary tree;
2. Be able to do **basic operations** in a binary search tree;
3. Understand the concept of a **height-balanced binary search tree**.

Introduction to BST




☒  **A Definition of the Binary Search Tree**

☒  **Validate Binary Search Tree**

☒  **Inorder Successor in BST**



☐  **Binary Search Tree Iterator**