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# Overview of Module 1

Welcome to module 1 of the course two of our specialization focusing on tree and graph algorithms. This module will cover the basics of the binary search tree data structure. We will study basic operations on binary search trees and later study a self-balancing tree called red-black trees. Red-black trees are widely used but the operations needed to maintain balance in a red-black tree are complex and hard to remember by rote. Therefore, our presentation will focus on the basic concepts and explain the ideas behind red-black trees.

After each lesson, we have multiple choice quizzes and a programming assignment that will focus on binary search trees. We will experimentally explore the surprising properties of randomized binary search trees in our programming assignment.

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