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Welcome to the course discussion forums! Ask questions, debate ideas, and find classmates who share your goals. Browse popular threads below or other forums in the sidebar.

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154 threads · Last post 16 days ago

Binary Search Trees 2









In this module we continue studying binary search trees. We study a few non-trivial applications. We then study the new kind of balanced search trees - Splay Trees. They adapt to the queries dynamically and are optimal in many ways.

Learning Objectives

- Describe how to implement advanced operations using balanced binary search trees
- Describe how splay trees work
- · Analyze the running time of operations with splay trees
- Apply amortized analysis to splay trees
- Apply binary search trees in programming challenges
- Develop a balanced binary search tree





- Easily launch Coursera's preconfigured environment for C++, Java, and Python 3 programming
- Get access to all dependencies (libraries and packages) for VSCode—no local software installation required
- $\bullet \ \ \mathsf{Practice}\ \mathsf{C++}, \mathsf{Java}, \mathsf{and}\ \mathsf{Python}\ \mathsf{3}\ \mathsf{programming}, \mathsf{run}\ \mathsf{test}\ \mathsf{cases}, \mathsf{and}\ \mathsf{work}\ \mathsf{on}\ \mathsf{assignments}\ \mathsf{from}\ \mathsf{your}\ \mathsf{browser}$



Applications Video: Applications 10 min Resume Resume Resume Resume Resume Resume Resume Programming Assignment 4 Programming Assignment: Programming Assignment 4: Binary Search Trees 3h Due Sep 6, 1:59 AM CDT

