

Data Structures and Algorithms

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Lecture 14

STL in C++ (Non-Linear Data Structures)



Course Roadmap



Part 2: Non-Linear Data Structures

Lecture 8: Binary Tree

Lecture 9: Binary Search Tree

Lecture 10: Self Balancing Binary Search Tree

Lecture 11: Binary Heap Tree

Lecture 12: Hash Table

Lecture 13: Graph

Lecture 14: STL in C++ (Non-Linear Data Structures)

Lecture Agenda

We will discuss in this lecture
the following topics

1- STL in C++ (Non-Linear Data Structures)

2- Set

3- Multi-set

4- Map

5- Multi-map

6- Priority Queue



Let's
STARTUP

Lecture Agenda



Section 1: STL in C++ (Non-Linear Data Structures)

Section 2: Set

Section 3: Multi-set

Section 4: Map

Section 5: Multi-map

Section 6: Priority Queue



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Practice



HackerRank - Trees & Balanced Trees



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- [41] <https://www.hackerrank.com/challenges/counting-on-a-tree/problem>
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- [52] <https://www.hackerrank.com/challenges/box-operations/problem>
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Lecture Agenda



- ✓ Section 1: STL in C++ (Non-Linear Data Structures)
- ✓ Section 2: Set
- ✓ Section 3: Multi-set
- ✓ Section 4: Map
- ✓ Section 5: Multi-map



Section 6: Priority Queue

Practice



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