Competitive Programming Tutorials

Mini Courses

Mini Courses are to give you a quick overview on the topic along with practicing problems by the top CodeChef Educators. Whether you are starting out or want to have a quick revision, these 3 sessions courses will help you learn the topics quickly.

Topic	Courses by Educator
Aho-Corasick-Algorithm	Riya Bansal
Backtracking	Sanket Singh
Binary Search	Deepak Gour
Binary Trees	Riya Bansal
Building Blocks of Programming	Arnab Chakraborty
Combinatorics	Himanshu Singh
Disjoint Set Union	Triveni Mahatha
Dynamic Programming Through Problem Solving	Arjun Arul, Himanshu Singh, Sidhant Bansal
Dynamic Programming - Sum over subset	Vivek Chauhan
FAANG Interview Problems	Sanket Singh
Fast Exponentiation and Recurrence Relations	Triveni Mahatha
Fenwick and Segment Trees	Surya Kiran
FFT in Polynomial operations and Advanced Combinatorics	Nishchay Manwani
Game Theory	Surya Kiran
Graph Algorithms	Triveni Mahatha, Himanshu Singh
Graph Interview Problems	Sanket Singh
Graph Theory (in Hindi)	Utkarsh Gupta
Graphs and its properties	Surya Kiran
Graphs using Problem Solving	Riya Bansal
Greedy Algorithms	Srikkanth
Hashing	Riya Bansal
Heaps	Rohit Mazumder
Internship Interview Problems	Sanket Singh
Interview Problem Solving on Sets and Hash Maps	Riya Bansal
Linked List Problems	Riya Bansal
Meet In The Middle Algorithm	Vivek Chauhan
Mysterious Topic Problems	Pulkit Chhabra
Number Theory	Himanshu Singh
OOPS in Java	Riya Bansal
Pattern Matching Algorithm	Riya Bansal
Probability and Expected Values	Triveni Mahatha
Recursion	Sanket Singh
Searching	Sanket Singh, Robin
Segment Trees	Utkarsh Gupta, Triveni Mahatha, Tanuj Khattar
Shortest Path Algorithms	Triveni Mahatha, Pulkit Chhabra
Spanning Trees	Rohit Mazumder, Pulkit Chhabra
Stack & Queues	Riya Bansal
Tips n Tricks of Competitive Coding	Arnab Chakraborty
Trees Algorithms	Himanshu Singh
Trees using Problems Solving	Riya Bansal
Trie Data Structure	Triveni Mahatha

Indian Programming Camp

Whether you're a beginner, an intermediate or an advanced programmer, we have a track for each of you to help level up.

Course	Topics	Course Link
Beginner Track	- Basic Programming Constructs - Problem Solving Basics - Complexity Theory - Basic Mathematics - Stacks & Queues - Sorting & Searching - Mastering C++ STL - Recursion and Backtracking - Dynamic Programming Basics - Graph Theory Basics	Link
Intermediate Track	- Trees - Segment Trees - Game Theory - Intermediate Dynamic Programming - String Hashing - Square Root Decomposition - Queries on Trees - DFS and BFS Spanning Trees - Basic/Intermediate number theory	Link
Advanced Track	- Persistent Data Structures - Linear Algebra - Biconnectivity - Suffix Arrays - Centroid Decomposition - Flows - FFT and Variants - Segment Tree Beats - DP Optimizations	Link