

Road Map to become Java Coder or competitive Programmer

Step-1: Find your motivation for getting started with cp(competitive programming with java).*You need that fire in you. It depends on you why you started, for learning purpose, improve your coding skills, improving your resume, increasing your chances to get selected at a good company, etc.*

Step-2: Make sure you are thorough with your programming basics. You need to be very thorough with: -

1)Conditional Statements.

2)Loops.

3)Arrays.

4)Strings.

5) Collections.

6)Data Structure: Stack, Queue, LinkedList, Set, Map

7) Basics of Object-Oriented-Programming.

<https://www.programiz.com/java-programming>

You should be good at these all above basic concept's to getting started with competitive programming. Play around with these basic concepts by mixing and manipulating them.

YouTube Channels:-

- 1) **For basics of java :-** Programming with Mosh(channel name) link :- <https://www.youtube.com/watch?v=elrMbAQSU34>
- 2) **For Intermediate java:-** thenewboston(channel name) link - <https://www.youtube.com/watch?v=vW53w7me4AE&list=PL27BCE863B6A864E3>
- 3) [Apni Kaksha](#)

Step-3: Go to hackerrank and solve programming problem to test java proficiency

https://www.hackerrank.com/domains/java?filters%5Bstatus%5D%5B%5D=unsolved&badge_type=java

one's you confident with these start solving problem's by following below steps

Step-4: Go to hackerrank and solve first 50 problem from this list :-

Solve Algorithms Code Challenges

You can always look up for solution by simply googling it , by going through others code , by discussing it in discussion tab or by the helps of others.

Here is a tip:- If you stuck at a problem ,simply watch it tutorial then go back to the problem and solve it . It will show that did you really understand the solution or not

Step-5: Go to Codeforces and solve 100 problem from this list :-

https://codeforces.com/problemset?order=BY_SOLVED_DESC&tags=math%2Cimplementation

Div. – 2(A + B) 100 problem

Step-6: Go to CodeChef and solve 50 problem from this list :-

<https://www.codechef.com/problems/school/>

Step-7: Go to LeetCode and solve 100 problem from this list :-

<https://leetcode.com/problemset/all/?difficulty=Easy>

First solve all the basic problem then go to intermidate and hard one's

YouTube Link: [LeetCode](#) Problems(*Understand How Leet Code Works*)

Step-8: Start Participating in coding contests ✓.

(It's Easy You can do it.) □

Step-9: Study From : Best place to study theory for competitive programming 😍:-

1. [Main Page — Competitive Programming Algorithms](#)
2. [Notes on HackerEarth](#)
3. Blogs of Codeforces(Please use Google)
4. [Competitive Programming: From Beginner to Expert](#) (They explain things in such a friendly manner,I love those guys)
5. [GeeksforGeeks | A computer science portal for geeks](#)(This guy will save you the most)

Last Step:- *Study dynamic programming , Graph Data Structure,Trees* and all the advanced data structure and algorithm but first master basics

YouTube Channels :-

[AdityaVerma](#): dp

[CodenCode](#) : Advance

[Love Babbar](#) : Advance Level

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