Master Data Structure
&
Algorithms with C and C++

Proposal for Coders
Learn.Inspire.Grow.

Beat every coder around you.
Learn using best techniquies, we use
Pareto's Principle 80% output 20% effort.

Register Here : codingclub.tech/algo
Learn.Inspire.Grow.

BEST DEAL

Coding Club
Learn.Inspire.Grow.

Contents

The Story of Coding Club

Written by : Suruchi Jain, Vice President at Coding Club

90 % of the students graduate from Tier 2 college.
Yes, they are not IITian but they have a big dream too!!!.
I 'm one of them :)

A new beginning but I'm all broken because I had a
dream of being in IIT but I was here, a tier 2 college.
Trying to make myself stay strong and promising myself
that history will not repeat again. This time I will be
able to make my dreams alive. I had a dream again,
similar to those dreams which IITians see, to be in a big
company. I didn't know the way to achieve it.

My brain was ready to take the challenge and prepared
itself for the long way.
company. I didn't know the way to achieve it.

Prepare but what…..

Trying to understand which things I should focus more on. I s
tarted exploring what exactly Tier-1 college students do.
I realized focus should be more on coding skills and a mix

of programming and development is required. So I started
working on C programming. This was the time, I started
feeling the taste of programming for the first time.

I was confused where to start coding from. What should I do
first? I just knew basic of C. So I started communicating with
a senior who was in Directi. He always kept me feel motivated.
Sooner, he gave me a target to do 90 questions in a month
on some coding platform. And, those consistent green ticks
on coding platform was too addictive and challenging
continuing with my passion for coding but sometimes when
I got stuck in some of the questions and seeking for help.
I realized nobody is there to help out, as there was no coding
culture in our college. Nobody in our college was focussing
on coding. I have seen many workshops on robotics. But
never found anything related to coding that can solve my
doubts. So, I started getting connected with coders on
Facebook. This was a good step as I was getting some
guidance from here. And, I was no more feeling alone to work
on enhancing coding skills. I believe you need company and
network of like-minded people and all of them having the
same purpose or aim.

Web Development also needs to be taken care of ….
Some of my friends were doing Android projects. Some of them
were learning python. Some of them were attending workshops.
I didn't know which type of projects I should be working on.
As every second of my life counts. And I had very less time in
my hands. Here comes my mentor for the rescue, he advised
me to work on those projects such that for 20% of effort, you will
get 80% results. And those projects which are valuable for a
company which you will be joining after graduating.
I liked his advice and he suggested me some of the projects
based on crawling and working with backend APIs and
frontend that can communicate with the backend.

Sometimes the conversation with my mentor goes very life changing. I want to share one of that learning with all of you :)

.

Always try to what 20% you can do which results in 80% in your life.Always work should be done in accordance with Pareto Principle: The 80–20 rule.

3rd year at its peak…..
As placement time was nearby, I realized, I 'm able to solve problems but time management is the key to crack the interview. My mentor suggested me to participate more in short contests and focusing more on speed and time taken to solve problems. This strategy worked very well for me. Now, I was able to code standard problems in 9-10 minutes :)

4th year is about to start …..
I was aware of the fact that no big company will gonna visit our campus so, I started flooding my resume in big companies and asked some of my friends to refer me. My mentor gave me a referral in Directi. I got a chance of trial week at Zomato and my interview rounds were also scheduled in wingify. They asked me to do a project in one week. I submitted it in just two days and I got a call for onsite interviews at Wingify. All my interviews went well and got an offer from Wingify and in parallel, my interview process at Directi also started.
For me, Directi was a dream company and I have heard that it's interview rounds are quite hard. I cleared the online round and Skype interviews for Directi process

and problems were based on the graph, binary search, and dynamic programming. The most awaited day came, when I had an interview with the hiring manager. He asked me about my projects and gave me some coding problem to solve.

After around 30-40 minutes after the interview, I got a call from my sister telling me that you got a mail from Directi and it's an offer letter and with tears in my eyes, I paused for a moment and didn't know what to do. My brain was in buzzing state. I was not able to express what it was for me !!!

Dream Big and work hard!!
A positive attitude can
really make dreams come true - it did for me.

Coding club is the result of not only my journey,
it will be a journey of every single coder out there !!

After graduating, my mentor, Rishabh Jain
(President, Coding club) and all Alumni team members decided to solve all the problems that we faced, as we know the importance of guidance. And, we came up with the idea of opening a coding club community to help out you all.
So that your journey will be smooth :)

Now, it's your turn to Learn.Inspire.Grow.

Coding Club
Learn.Inspire.Grow.

How do we learn at Coding Club and our work culture ?

Our Teaching Methodologies include 2 principles :-

Pareto Principle(80-20)
It says that 80% of results require only 20% of efforts.
That's what we do at coding club. We will teach you 20% that
actually resulted in 80% in your growth. Truly Speaking,
No one can teach entire machine learning in 2 months.
So utilize your time effectively and make really great
projects that literally enhance your resume and create a
 powerful impact in the society.

Each one Teach one
A good Work Culture is the key to Success.
As it is said that teaching is the best way of learning.
Freedom is what an every individual wants.
Hence "Each One Teach One" is a motivation for the class
to understand their responsibility of helping each other or atleas
t one in the community. It is like killing two birds with one
stone. Students will get confidence on the topic and at the
same time it will improve relationships and networking.

Learn from sessions, become and expert inspire others
and growth hack your success all together.

We will mentor each and individual students personally .
we don't move ahead unless and until problem of
each and every one of you doesn't get resolved.

Course Topics

Getting Started

- Pseudo code
- Getting started with C & C++
- IDE Installation

Getting a Hold of C/C++

- Variables,Loops, Conditional Statements
- Functions, Reference Variables
- Arrays and Pointers
- Strings and 2-D Arrays

Introduction to Advanced Topics

- Recursion-I
- Space Time Complexity Basics
- Stacks and Queue Basics
- Problem Solving

Recursion & Backtracking

- Recursion
- Back-Tracking
- Space Time Complexity Analysis

Foundational DS

- Arrays & Bitmasking Vectors
- Stacks Queues Problems
- Linked Lists

Introduction to Advanced Topics

- Divide & Conquer
- Sorting Algorithms
- Binary Search Variants
- Bitmasking and Hashing

Advanced Data Structures

- Stacks Queues Linked Lists
- Trees & Tries
- Graphs
- Heaps and Priority Queues
- Binary Search Trees

DP vs Greedy Techniques

- Greedy Techniques
- Dynamic Programming

STL | Interview Problems

- Complete C++ STL
- Interview problems

Practice on Coding Platforms

- submit 5 problems from Spoj
- submit 20 problems from LeetCode
- submit 30 problems from HackerRank
- submit 30-50 problems from Codechef

About The Instructor

Rishabh has a Bachelor's degree in Software Engineering from DTU (2009-2013). He loves to Mentor people.
He is a competitive programmer and developer with previous experience at Media.net @ Directi for 3.5 years. He worked on large scale AdTech and Machine Learning systems being used by Forbes, Cosmopolitan, New York Times and other publisher while working in Media.net. Media.net is 2nd largest AdTech in contextual advertising after Google.

After that he started working on his own innovations in in EduTech, AdTech, Media industry. He has been in into tech industry for 5 years. Coding Club is one of them which is flourishing Coding Cultur in 750+ colleges in India.

About Our Team

We're led by a team who constantly questions, thinkers, and challenges to unlock great creativity around every turn.

Our Teams At Coding Club :

Alumni Team
codingclub.tech/alumni-team

College Mentors
codingclub.tech/mentor-term

Our All Team
codingclub.tech/our-team

Rishabh Jain
President at Coding Club

Session Moments

We believe in discussions and doubts :)

Frequently asked Questions

Why should I join Coding Club for this course?

Coding Club focuses learning with more and more practice. At Coding Club we have mock up interview rounds time to time, which makes you extremely confident for future since long back.

I didn't have C++ in 12th class? Can I do this course?

This course will help you become smarter with your solutions. You'll be able to write solutions that run in lesser space and time. Optimizing space & time is what most interviewers look for.

Does Coding Club provide certificate after completing course ?

Yes, Ofcourse.

<DISCOUNT FOR EVERYONE />

For single
PAY Rs. 14,999
INSTEAD OF 20,000

When you join

Check next slide for Best Offer !