



Cracking the Coding and System Design Interview

Quick Interview Preparation Program

Roadmap to
High Package Job

Data Structure,
Algorithms
& System
Design Course

Online Training Program
Time Period: 3-4 Months

230+ Lectures By
Industry Experts
Trainers

Life Time
Subscription
For All Lectures

Assignments &
Assignments
Discussion

Analyse Code
for easy
understanding

Doubts
Clearing
Sessions

Weekly Coding
competition test
for Practice

Editor For practice
code in Java and
Python Language

Mock
Interview
Session

Job
Referral
Program

Program Highlights

Logicmojo offers Data structure, Algorithms & System Design Course For Cracking coding and System Design Interview for Top product-based companies. Each topic explains from very basic to an advanced level by using multiple examples. More focus is on Tricks, Techniques, and implementation than theory.

We have assignments with every lecture on every topic. After understanding lectures give it a shot to assignments which is based on similar concepts of lectures. Even if you can't able to crack assignments by yourself, we have all assignments detail discussion with code explanation. In this course, we teach all techniques of solving algorithms with the help of (Lectures + Assignments) combo.



Life time Access of Course

- 220+Online Lectures
- Subscribers will get all Updates



Assignments & Assignments Discussion

- Assignments with every problems
- Assignments Discussions, Techniques & Hints



Analyse code for clear understanding

- Analyse every code with diagrams, blocks and pointers
- Step by step execution of code in Memory



Support from Experts

- Every Lectures Doubt clearance
- Code Editor for practice in Java and Python
- Lectures from very basic to Advances



Weekly Coding Competition

- Live Coding Interview Experience Every week for subscribers
- Referral Supports for performers
- Compare Progress



Mock Interview Session

- Free Mock Interview sessions for Performers in coding test
- Tips & tricks to tackle interview process



Job Referral Program

- All Performers in coding test are illegible for Referral Program
- We also help in writing professional resume



4.8 ★★★★★

130+user Review

4.8

Quora

Top Rated



4.9 ★★★★★



Top Rated online Training for Cracking Coding and System Design Interviews

Click to read reviews



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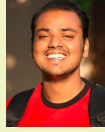
Placement And Success Stories

Co-Founder

Y qtnlpi 'at'Re{rcn

A one-stop destination for understanding data structures and building algorithms from scratch.

With great quality Online content and videos, difficult topics are presented in a simplified manner



Diwakar'Choudhary

Y qtnlpi 'at'WalmartLabs

Excellent course for interview preparation, very straight to the point

In-depth coverage of every point. Nice way of explaining solutions to very complex problems in an easy way



Shagun Akarsh

Working at Amazon

Must recommend for the aspirants who are preparing for Amazon, Google, Microsoft, and Top Product Based Company interview

Thoroughly touches every topic of coding and designing aspects also lectures and assignments are enough for preparation. Better quality than any other courses on the Internet



Priya Singh

Working at Cisco

The course curriculum is of the best quality along with good coding problems. Just follow the preparation sequence mentioned by Instructor and 2.5 month is enough to become a master in coding

It's like a quick interview preparation guide. Rather than solving un-important thousands of coding problems, just finish logicmojo and appear for any organization interview..



Mukund Reddy

Working at SapLabs

Great course! Helped me open some new doors in understanding how algorithms work and implementing solutions for the different exercises

The set of coding questions are quite good, most of them being from relevant industries interviews. Highly Recommended Course



Maruti Naidu

Working at NetApp

This is the best program one can take to begin and master competitive programming. The best part is assignments given for practice and assignments are also discussed.

My journey is there from an average programmer to a champ in coding. Along with my hard work, I want to give credit to Logicmojo also for wonderful lectures.



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Read more google reviews

www.logicmojo.com

Syllabus | 5 Levels | 3-4 Months

Level 1 :



Topics :

- a) Arrays – 1.5 Weeks
- b) Linked-List, Doubly Linked-List – 1.5 Weeks
- c) Binary Tree, Binary Binary Search Tree, N-ary Tree - 1.5 weeks

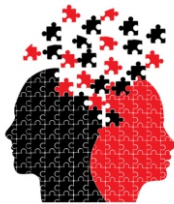
Level 2 :



Topics :

- a) Stack/Queue – 1 Week
- b) Hashing/Heap Sorting – 1 Week
- c) Backtracking/Recursion – 2 week
- d) Greedy Algorithms – 3 days

Level 3 :



Topics :

- a) Graph Theory - 2 Weeks
- b) Dynamic Programming - 2Weeks

Design Interview Preparation | 1+ Experience Candidates | 1 month

Level 4 :

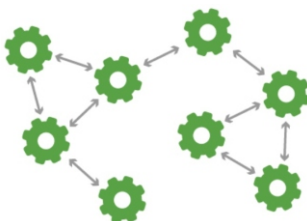


Topics :

- a) System Design Problems Discussion – 2 Weeks
- b) Object Oriented Problems Discussion - 2 Weeks
- c) Design Pattern Object Oriented Principal - 1 Week

Advanced Topics | Experience Candidates (2 + Years) | 1 month

Level 5 :



Topics :

- a) Micro-service Architecture - 1 Week
- b) Distributed System & Scalable System – 1 weeks
- c) Multithreading & Synchronization – 2 weeks
- d) Deployment in Cloud using Docker – 2 days



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Program Details

Course Prerequisite

Should have basic knowledge of Java or Python Programming

Who Should Subscribe For this Course

- Working professionals preparing for interviews of Big-5(Google,Amazon,Microsoft,Facebook,Apple) and Top Product Based organization
- BTech / MCA /MS Students looking for data structures,Algorithms & System Design coaching
- Job seekers who are preparing for interview in Product MNC/e-commerce companies
- Anyone who has a deep desire to learn data structures, algorithms, and system design to improve programming/coding skills and designing skills

About Instructors

Our instructors are working professionals who graduated from premier institutes and work with premier companies Like



WalmartLabs



Fees and Duration

Time Period : **3-4 Months**

Program Fee :

7490/-

For a Discount please visit the website Course Details...

Early birds Discount up to **2500/-**



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Sample Lecture Preview



Design Airline reservation System using Object Oriented language



Data Structure which support Insert delete, Random in O(1) time



Design Generic Deck of Cards



Course Details

ARRAYS

Complexity, Sorting,
Searching, Matrix related Problems
Strings Algorithms
Arrays $O(1)$ operations, Searching duplicates

Linked-list

Iterative & recursive approaches
Doubly LinkedList, flattening linked list
Sorting and searching operations on LL

Binary Tree (BT)

Binary Search Tree, N-ary Tree
Print BT from Different View
Conversion of BT, Post-Order, InOrder, PreOrder Operations
Mirror Operations, Leaf Nodes Distances, Lowest Common Ancestors
Recursive and Iterative Operations
Note : Un-important topic in Tree is B* Tree, Red Black Tree, AVL tree, Segment Tree

Stack/Queue

Stack/Queue operations in $O(1)$ time, combining stack and Queue
Applying stack/queue in Binary tree-based
Matrix problem solved using stack
Note: Direct questions are not asked in this Topic. Always application based on stack/queue.

Hashing/Heap Operations

Hashing $O(1)$ Operation,
Priority Queue, MaxHeap/Min Heap,
Heapify Operation, Find Medians,
Merge Operation in $O(\log n)$ using Heap

Backtracking/Recursion & Greedy Algorithms

Applying recursion or backtracking techniques on different games
find permutations, recursive efficient approaches
Problem based on Greedy Algorithms
Note : Recursion is most important topic in DSA



Course Details

Graph Theory

Depth first search, Breadth first search
Topological Sorting, Package Dependency ,Phone Dictionary Algorithms
Trie Implementation and Applications based on it
Longest Prefix , Matrix Related Assignments
Note: Prefix Tree is not much important for Interview perspective

Dynamic Programming(DP)

How to identify DP problems
Single Strings Problems: Longest Palindrome Subsequences/String,
Word Break, LIS(Longest Increasing Subsequence),Subset problems
Two Strings Problems: Longest Common Subsequences/Strings, Edit Distance
Interleave Strings, Wild card match,
Fibonacci Series: Nth Stair, Keystroke Algorithm
Note: Once tricks is understood then DP is comparatively very easy to solve

System Design Interview Preparation

Scalable components Understanding, Sharding, NoSQL,
Distributed Cache, Load balancer, Message Queue Techniques
Detail High Level Design(HLD) and Low Level Design(LLD) for many billions users Live System

Scalable System Design & Distributed System

Micro-service Architecture in detail, Message Queue Active MQ, Kafka,
Service Discovery, Distributed Tracing & Monitoring
Fault Tolerance, Concurrency Issues, Distributed Transaction

Multithreading & Synchronization

Creation and Invocation of thread, synchronization of threads
deadlock detection and prevention, producer consumer
multi reader writer, print numbers using multiple threads

Cloud Deployment using Docker

Jenkins Integration, Understanding Cloud Infrastructure
Distributed Micro services are Deployed in Docker Container Cloud Platform



Mock Interview & Job Assistance

HOW IT WORKS

Step 01

Finish Topics of the course

This course is divided into multiple topics. Subscribers can finish topics one after another. The preparation sequence of the course and time to accomplish every topic is already shared in the course brochure

Step 02

Participate in Weekly Coding Test

We organized Online weekly coding test for all subscribers of Logicmojo. Every week we have coding competition on one specific topic of DSA. Every week subscribers learn and practice topics in coding competition. All top performers will be eligible for Mock Interview and Resume Guidelines by experts as well as they are intelligible for Job referral program for FREE.

Step 03

Mock Interview & Resume Guidelines

For all top performers in the online weekly coding test, we conduct FREE Mock Interviews from experts. It will give them the experience of Live interviews. Also, we help them with resume preparation tips and guide them on writing a professional resume to get a call from Top Big-5.

Step 04

Job Referral Program

All performance also illegible for our Job referral program through partnered consultancies and software companies for coding interviews.



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