

200 DAYS OF DSA

200 DAYS

Best Sources to Practice :
 • Leetcode
 • InterviewBit

50 DAYS
Concepts

50 DAYS
Coding
Aptitude

50 DAYS
CRAMMING

50 DAYS
MISCELLANEOUS

Learning Path:

• Data Structures → OOPS → Operating System
 ↓
 System Design ← Computer Networks ← DBMS
 ↓
 Puzzles.

Along the way

Competitive Programming Projects

200 days Plan

Concepts

Coding
Aptitude

Cramming

- DS and Algos - $50 + 50 + 50 = 150$ days
- OOPS - 5 days
- C and C++ MCQs - $4 + 4 + 4 + 4 = 16$ days
- Operating System - $5 + 7 = 12$ days
- System Design and Puzzles - 5 days

200 days plan | DS and Algos | Concepts | 50 days

- 300 questions . 50 days
- 1 day = 6 hours . 4 hours new + 2 hours revision.
- 4 hours new = $1q/40 \text{ minutes} = 6q/\text{day}$.
- 2 hours revision.
- Slow . Subtleties.
- Follow Feynman Model — Identify , Learn

↓
Teach Yourself.

↓
find the gap between learning and teaching yourself.

| Coding Aptitude | 50 days

- 1 day = 12 hours .
- 6 Questions = 2 hours each

- 2 hours → -- 1.5 hours (Try to solve it yourself) → -- 30 mins (Read the solution)

TFR — Try Fail Read

Try { if (fail) {

Read the solution;

else {

keep trying and solving;

}

Sources :

- Leetcode
- Interview Bit

| Cracking | 50 days

Sources :

- Greeks for Greks (GFG)
- Top 500 Important Questions

12 hours / day .

1 hour = 1 Question

30 mins + 30 mins
↓ ↓
Read the Solve
solution

Contents for DSA.

• Basics of Programming

- Basics
- Patterns
- Function and Arrays
- 2D Arrays
- String and String Builder.

• Recursion and Backtracking:

- Introduction to Recursion
- Recursion in Arrays
- Recursion with ArrayLists
- Recursion on the way up
- Recursion Backtracking.

• Dynamic Programming:

- Dynamic Programming and Greedy
- Time and Space Complexity

• OOPS :

- OOPS

• Basic Data Structures

- Stacks and Queues
- Linked Lists
- Generic Tree
- Binary Tree
- Binary Search Tree

• Advanced Data Structure

- Hash Map and Heap

- Graphs

Contents for OOPS

For Java

Book - Oracle Certified Java Programmer

- Chapter 2 - OOPS
- Chapter 7 - Collections
- Chapter 8 - Inner Classes
- Chapter 9 - Multithreading

For C++

Book - Balaguruswami

200 Days Plan | OOPS | 5 days

- Encapsulation - Abstraction and Data Hiding
- Polymorphism - Dynamic and Static (overload vs override)
- Exceptions
- Generics
- Design Patterns

200 Days Plan | C and C++ | 16 Days

- GFG C Page - 4 days
- Book: Let Us C - 4 days
- GFG C++ Page - 4 days
- Book: Balaguruswami - 4 days

Just Read them,
it not necessary
that you
remember
everything

200 Days Plan | Operating System | 12 Days

- Videos: Sanchit Jain - 2 days
- Bedtime Stories with OS - 2 days
- GFG Page - 2 days
- Calvin - First 12 chapters - 6 days (Syllabus Part only).

200 Days | Plan | DBMS | 12 days

- W3 School / LeetCode - 2 days
- Sanchit Jain Videos - 2 days
- Geeks Page - 2 days
- Korth - 6 days, Syllabus Part only.

Important topics

- W3 Schools
- Interview Bit
- ~~Sanchit~~ Sanchit Jain Videos
- Korth
- SQL
- Normalization
- Indexes

200 Days Plan | System Design and Puzzles | 5 days

(Try to
Solve
2 Questions
everyday)

Puzzles - 200 Puzzles (GFG)

System Design : 20-25 Videos of
Chauhan Sen
(Youtube)