

INTERVIEW ROADMAP

PREETHI SHASHIKUMAR
Contact : 18eucs084@skcet.ac.in



PROBLEM SOLVING PLATFORMS THAT CAN BE USED

GEEKSFORGEEKS

<https://practice.geeksforgeeks.org/explore/?page=1>

LEETCODE

<https://leetcode.com/problems/all/>

HACKERRANK

<https://www.hackerrank.com/dashboard>

HACKEREARTH

<https://www.hackerearth.com/practice/>

ONLINE ITERATOR

<http://pythontutor.com/visualize.html#mode=edit>



PROBLEM SOLVING

TOPICS	PROBLEMS	DAYS	LINKS
Arrays	Atleast 100 problems	10 - 15 days	https://practice.geeksforgeeks.org/explore/?problemStatus=unsolved&page=1&category%5B%5D=Arrays
Searching algorithms	2 problems	1 day	https://practice.geeksforgeeks.org/explore/?problemStatus=unsolved&page=1&category%5B%5D=Sorting&category%5B%5D=Searching&category%5B%5D=Binary%20Search&category%5B%5D=Merge%20Sort&category%5B%5D=radix%20sort%20
Sorting algorithms	5 problems	1 - 2 days	https://practice.geeksforgeeks.org/explore/?problemStatus=unsolved&page=1&category%5B%5D=Strings&category%5B%5D=Java-Strings
Strings	Atleast 100 problems	10 - 15 days	https://practice.geeksforgeeks.org/explore/?problemStatus=unsolved&page=1&category%5B%5D=Recursion
Recursion	Atleast 40 problems	4 - 7 days	

<https://450dsa.com/>

ALGORITHMS

SEARCHING ALGORITHMS

1. Linear search
2. Binary search
3. Circular binary search

searching

https://www.youtube.com/watch?v=4GPdGsB3OSc&ab_channel=GeeksforGeeks

https://www.youtube.com/watch?v=P3YID7liBug&ab_channel=HackerRank

https://www.youtube.com/watch?v=uufaK2uLnSI&ab_channel=mycodeschool

Sorting

<https://youtu.be/pkkFqIG0Hds>

SORTING ALGORITHMS

1. Selection sort
2. Bubble sort
3. Insertion sort
4. Merge sort
5. Quick sort



DATA STRUCTURES

Few Resources
<https://youtu.be/sDKpIO2HGq0>
<https://youtu.be/ec72AqFRB7U>
<https://youtu.be/81PpYQ0AN> w

TOPICS	PROBLEMS	DAYS	LINK
Singly Linked list	Atleast 40 problems	7 - 10 days	https://practice.geeksforgeeks.org/explore/?problemStatus=unsolved&page=1&category%5B%5D=Linked%20List&category%5B%5D=doubly-linked-list&category%5B%5D=circular-linked-list&category%5B%5D=circular%20linked%20list
Doubly Linked list	Atleast 30 problems	4 - 7 days	
Circular Linked list	Atleast 15 problems	2 - 4 days	
Queue	Atleast 20 problems	5 - 8 days	https://practice.geeksforgeeks.org/explore/?problemStatus=unsolved&page=1&category%5B%5D=Queue
Stack	Atleast 40 problems	7 - 10 days	https://practice.geeksforgeeks.org/explore/?problemStatus=unsolved&page=1&category%5B%5D=Stack
Binary Trees	Atleast 40 problems	7 - 14 days	https://practice.geeksforgeeks.org/explore/?problemStatus=unsolved&page=1&category%5B%5D=Tree&category%5B%5D=Binary%20Search%20Tree&category%5B%5D=AVL-Tree
Binary Search Trees	Atleast 50 problems	7 - 14 days	
AVL Tree	2 problems	1 - 2 days	
Hash	Atleast 20 problems	3 - 5 days	https://practice.geeksforgeeks.org/explore/?problemStatus=unsolved&page=1&category%5B%5D=Hash
Heap	Atleast 10 problems	3 - 5 days	https://practice.geeksforgeeks.org/explore/?problemStatus=unsolved&page=1&category%5B%5D=Heap

ADVANCED DATA STRUCTURES

GRAPH (15-30 Days)

- BFS
- DFS
- DIJKSTRA'S ALGORITHM
- FLOYD WARSHALLS'S ALGORITHM
- PRIM'S ALGORITHM
- KRUSKAL'S ALGORITHM
- STRONGLY CONNECTED COMPONENTS
- CRITICAL CONNECTION IN A NETWORK
- DFS & BFS BASED PROBLEMS
- SOLVING PROBLEMS ON GRAPH



<https://practice.geeksforgeeks.org/explore/?problemStatus=unsolved&page=1&category%5B%5D=Graph>

PROBLEM SOLVING TECHNIQUES

TOPICS	PROBLEMS	DAYS	LINK
Backtracking	Atleast 20 problems	7 - 10 days	https://practice.geeksforgeeks.org/explore/?problemStatus=unsolved&page=1&category%5B%5D=Backtracking
Dynamic Programming	Atleast 50 problems	10 - 20 days	https://practice.geeksforgeeks.org/explore/?problemStatus=unsolved&page=1&category%5B%5D=Dynamic%20Programming
Divide & Conquer	Atleast 20 problems	3 - 5 days	https://practice.geeksforgeeks.org/explore/?problemStatus=unsolved&page=1&category%5B%5D=Divide%20and%20Conquer
Greedy Algorithm	Atleast 20 problems	5 - 8 days	https://practice.geeksforgeeks.org/explore/?problemStatus=unsolved&page=1&category%5B%5D=Greedy

Few Resources
https://youtu.be/f19e_ofbydc



THEORY CONCEPTS

OPERATING SYSTEMS

5 - 10 DAYS

1. Jenny's lecture

https://youtube.com/playlist?list=PLdo5W4Nhv31a5ucW_S1K3-x6ztBRD-PNa

2. Roadmap Cheat sheet :

<https://whimsical.com/operating-system-cheatsheet-by-love-babbar-S9tuWBCSQfzoBRF5EDNinQ@2Ux7TurymNF5kNjPYez1>

Roadmap Cheat sheet notes :

<https://drive.google.com/file/d/1FAxjhyllsGGoulyCPyR3xqKVgU7mhEmQ/view>

3. Javatpoint

<https://www.javatpoint.com/os-tutorial>



DATABASE MANAGEMENT SYSTEMS

5 - 10 DAYS

1. Roadmap Cheat sheet :

<https://whimsical.com/dbms-roadmap-by-lovebabbarFmUi8ffVop33t3MmpVxPCo>

2. Beginners book

<https://beginnersbook.com/2015/04/dbms-tutorial/>

3. Javatpoint

<https://www.javatpoint.com/dbms-tutorial>



OBJECT ORIENTED PROGRAMMING

3 - 7 DAYS

1. Javatpoint

<https://www.javatpoint.com/java-oops-concepts>



MYSQL

1 - 2 DAYS

1. W3SCHOOLS

<https://www.w3schools.com/sql/>

2. Practice :

<https://play.google.com/store/apps/details?id=randomappsinc.com.sqlpracticeplus>



CORE JAVA & MULTITHREADING

5 - 8 DAYS

1. CORE JAVA

<https://www.javatpoint.com/java-tutorial>

2. MULTITHREADING

<https://www.javatpoint.com/multithreading-in-java>



COMPUTER NETWORKS

3 - 7 DAYS

1. Cheat sheet

<https://whimsical.com/networking-cheatsheet-by-love-babbar-FcLExFDezhhfsbDPfZDBv>



TIME COMPLEXITY ANALYSIS

1 - 2 DAYS

1. <https://www.google.com/amp/s/www.geeksforgeeks.org/understanding-time-complexity-simple-examples/amp/>
2. <https://www.google.com/amp/s/www.geeksforgeeks.org/analysis-of-algorithms-set-4-analysis-of-loops/amp/>
3. <https://yourbasic.org/algorithms/time-complexity-explained/>
4. <https://www.studytonight.com/data-structures/time-complexity-of-algorithms>
5. <https://adrianmejia.com/most-popular-algorithms-time-complexity-every-programmer-should-know-free-online-tutorial-course/>
6. <https://www.bigocheatsheet.com/>
7. <https://www.hackerearth.com/practice/notes/sorting-and-searching-algorithms-time-complexities-cheat-sheet/>



BASIC WEB TECHNOLOGY

10 - 15 DAYS

1. HTML

<https://www.w3schools.com/html/>

2. CSS

<https://www.w3schools.com/css/>

3. JAVASCRIPT

<https://www.w3schools.com/js/>

4. JQUERY

<https://www.w3schools.com/jquery/>



APTITUDE

15 - 20 DAYS (2 Topics / day)

1. BOATS
2. TRAINS
3. TIME, SPEED, DISTANCE
4. HEIGHT & DISTANCE
5. TIME & WORK
6. SEATING ARRANGEMENTS
7. CLOCK
8. CALENDAR
9. DIRECTION
10. PERMUTATION
11. COMBINATION
12. PROBABILITY

13. BLOOD RELATION
14. AGES
15. PROFIT & LOSS
16. PERCENTAGE & DISCOUNTS
17. SIMPLE INTEREST
18. COMPOUND INTEREST
19. WORKER WAGES
20. HCF & LCM
21. RATIO & PROPOSITION
22. AVERAGE
23. CIRCLE
24. TRIANGLE





FINAL PREPARATION

PUZZLES (1 - 2 Days)



1. <https://www.geeksforgeeks.org/category/puzzles/>
2. <https://www.interviewbit.com/puzzles/>
3. <https://medium.com/afteracademy/top-50-puzzles-commonly-asked-during-the-interview-132af8ccbf7a>
4. <https://youtu.be/d6Ed1-TGER8>

BASIC LINUX COMMANS (1 day)

<https://maker.pro/linux/tutorial/basic-linux-commands-for-beginners>

RESUME PREPARATION (1 day)

1. <https://www.canva.com/resumes/templates/>
2. <https://resumebuild.com/>
3. <https://novoresume.com/>
4. <https://resume.io/>

PROJECTS (1 day)

Revision on database used , logics , tech stack & implementation



SELF INTRODUCTION & GENERAL INTERVIEW QUESTIONS (1 day)

1. <https://youtu.be/EzGH3hZuJVk>
2. <https://youtu.be/Ji46s5BHdr0>
3. <https://youtu.be/1mHjMNZZvFo>



TOTAL NO OF DAYS = 279

Approximately 10 months

