YOUR ONE-STOP PLACEMENT GUIDE
- By Nishant Chahar

- C++ Resources:
  - https://www.learncpp.com/
  - https://youtube.com/playlist?list=PLLYz8uHU480j37APNXBdPz7YzAi4XlQUF

- Python:
  - https://youtu.be/8DvywoWv6fI
  - https://realpython.com/ ○ https://docs.python.org/3/

- Java:
  - https://www.udemy.com/course/object-oriented-programming-oops-for-java-certification/?start=0
  - https://www.youtube.com/watch?v=aQatrXw0njs
  - https://www.youtube.com/watch?v=ntLJmHOJ0ME&list=PLu0W_9lII9agS67Uits0UnJyrYiXhDS6q

- Javascript
  - https://www.youtube.com/watch?v=pN6jk0uUrD8&list=PLlasXeu85E9cQ32gLCvAvr9vNaUccPVNP
  - https://www.youtube.com/watch?v=2md4HQNRqJA&list=PLRAV69dS1uWSxUIk5o3vQY2-_VKsOpXLD

DSA

- **Abdul bari Sir (Algos)** https://www.youtube.com/watch?v=0IAPZzGSbME&list=PLDN4rrl48XKpZkf03iYFl-O29szjTrs_O&ab_channel=AbdulBari
- **Dynamic Programming Watch the complete tutorial for Dp on youtube by Aditya Verma**
  - https://www.youtube.com/watch?v=nqowUJzG-iM&list=PL_z_8CaSLPWekqh dCPmFohncHwz8TY2Go&ab_channel=AdityaVerma ●
  GFG TOP 20 DP questions
  - https://www.geeksforgeeks.org/top-20-dynamic-programming-interview-questions/

- **Practice Qns on Dp section-wise on leetcode**
    - https://leetcode.com/discuss/general-discussion/662866/DP-for-Beginners-Problems-or-Patterns-or-Sample-Solutions
    - https://leetcode.com/discuss/general-discussion/1050391/must-do-dynamic-programming-problems-category-wise
    - https://leetcode.com/discuss/general-discussion/458695/Dynamic-Programming-Patterns ● **InterviewBit**
    - https://www.interviewbit.com/courses/programming/topics/dynamic-programming/
- **Backtracking**
    - https://www.youtube.com/watch?v=DKCbsiDBN6c&ab_channel=AbdulBari
    - https://www.youtube.com/watch?v=xFv_Hl4B83A&ab_channel=AbdulBari
    - https://www.interviewbit.com/courses/programming/topics/backtracking/
    - https://www.geeksforgeeks.org/top-20-backtracking-algorithm-interview-questions/
- More practice questions on Backtracking:
    - https://leetcode.com/problems/the-k-th-lexicographical-string-of-all-happy-strings-of-length-n/
    - https://leetcode.com/problems/permutations/
    - https://leetcode.com/problems/letter-case-permutation/
    - https://leetcode.com/problems/generate-parentheses/
    - https://leetcode.com/problems/combination-sum-iii/
    - https://leetcode.com/problems/combination-sum/
    - https://leetcode.com/problems/palindrome-partitioning/
    - https://leetcode.com/problems/combination-sum-ii/
    - https://leetcode.com/problems/permutations-ii/
    - https://leetcode.com/problems/letter-combinations-of-a-phone-number/
    - https://leetcode.com/problems/restore-ip-addresses/
    - https://leetcode.com/problems/n-queens-ii/
    - https://leetcode.com/problems/n-queens/
    - https://leetcode.com/problems/sudoku-solver/
    - https://leetcode.com/problems/regular-expression-matching/
    - https://leetcode.com/problems/word-ladder-ii/
- **Greedy**
    - Watch recording if you are a beginner
    - https://www.youtube.com/watch?v=HzeK7g8cD0Y&list=PLqM7alHXFySESatj68JKWHRVhoJ1BxtLW&ab_channel=GeeksforGeeks
    - **Solve All problems**
        - https://www.interviewbit.com/courses/programming/topics/greedy-algorithm/

    1. Activity Selection
    2. N meetings in one room
    3. Coin Piles
    4. Maximize Toys

5. Page Faults in LRU
6. Largest number possible
7. Minimize the heights
8. Minimize the sum of product
9. Huffman Decoding
10. Minimum Spanning Tree
11. Shop in Candy Store
12. Geek collects the balls
13. https://leetcode.com/problems/last-stone-weight/
14. https://leetcode.com/problems/gas-station/

For those DSA, complete all questions from Interviewbit and must do coding questions from GFG

- https://www.geeksforgeeks.org/must-do-coding-questions-for-companies-likeamazon-microsoft-adobe/
- https://www.interviewbit.com/courses/programming/

For Online Test a little bit of CP IS REQUIRED So, PARTICIPATE IN ALL LEETCODE CONTEST. OTHER RESOURCES:--

For recursion:

- https://www.techiedelight.com/recursion-practice-problems-with-solutions/

Solve all problems

- https://www.youtube.com/channel/UCmJz2DV1a3yfgrR7GqRtUUA
- https://www.youtube.com/channel/UCYvQTh9aUgPZmVH0wNHFa1A
- https://www.youtube.com/channel/UCZCFT11CWBi3MHNlGf019nw
- https://www.youtube.com/channel/UCWSYAntBbdd2SLYUqPIxo0w

You can find solutions to leetcode and gfg problems on

- Take U Forward: https://www.youtube.com/channel/UCJskGeByzRRSvmOyZOz61ig
- Pepcoding: https://www.youtube.com/channel/UC7rNzgC2fEBVpb-q_acpsmw
- Lead Coding: https://www.youtube.com/channel/UC81Q2wnuk5KqOFVgAbq4nUw

DP CP https://www.youtube.com/watch?v=FAQxdm0bTaw
https://atcoder.jp/contests/dp

Binadry Search: https://www.youtube.com/watch?v=GU7DpgHINWQ

Learn Time Complexity: https://youtu.be/luXiytGnYpY Topic-wise links: 1. Arrays -Bare Minimum a. https://www.geeksforgeeks.org/top-50-... -Bonus a. https://www.interviewbit.com/courses/... b. https://leetcode.com/tag/array/ 2. Strings -Bare Minimum a. https://www.interviewbit.com/courses/... -Bonus a. https://leetcode.com/tag/string/ b. https://www.hackerrank.com/domains/al... 3. Linked Lists -Bare Minimum a. https://www.interviewbit.com/courses/... -Bonus a.

https://leetcode.com/tag/linked-list/ b. https://www.geeksforgeeks.org/top-20-... 4. Stacks and Queues -Theory: a. https://www.geeksforgeeks.org/stack-d... b. https://www.geeksforgeeks.org/queue-s... -Bare Minimum a. https://www.interviewbit.com/courses/... -Bonus a. https://leetcode.com/tag/stack/ b. https://leetcode.com/tag/queue/ c. https://www.geeksforgeeks.org/queue-d... d. https://www.geeksforgeeks.org/stack-d... 5. Tree-based data structures: -Theory: a. https://www.geeksforgeeks.org/binary-... b. https://www.geeksforgeeks.org/binary-... c. https://www.geeksforgeeks.org/trie-in... d. https://www.geeksforgeeks.org/heap-da... e. https://www.geeksforgeeks.org/hashing... -Bare minimum: a. https://www.interviewbit.com/courses/... b. https://www.interviewbit.com/courses/... c. https://www.interviewbit.com/courses/... -Bonus a. https://leetcode.com/tag/tree/ b. https://leetcode.com/tag/heap/ c. https://leetcode.com/tag/trie/ d. https://leetcode.com/tag/hash-table/ 6. Graphs: -Theory: a. https://www.geeksforgeeks.org/graph-a... -Standard Algos: a. BFS - https://www.geeksforgeeks.org/breadth... b. DFS - https://www.geeksforgeeks.org/depth-f... c. Dijkstra - https://www.geeksforgeeks.org/dijkstr... d. Prim's - https://www.geeksforgeeks.org/prims-m... e. Kruskal - https://www.geeksforgeeks.org/kruskal... f. Floyd-Warshall - https://www.geeksforgeeks.org/floyd-w... g. Union Find - https://www.geeksforgeeks.org/union-f... -Bare Minimum: a. https://leetcode.com/tag/graph/ (Easy and Medium) -Bonus: a. https://www.interviewbit.com/courses/... 7. Dynamic Programming: -Video lectures: a. Lec 1 - https://www.youtube.com/watch?v=OQ5js... b. Lec 2 - https://www.youtube.com/watch?v=ENyox... c. Lec 3 - https://www.youtube.com/watch?v=ocZMD... -Bare minimum (Standard problems): a. https://www.geeksforgeeks.org/program... b. https://www.geeksforgeeks.org/0-1-kna... c. https://www.geeksforgeeks.org/coin-ch... d. https://www.geeksforgeeks.org/compute... e. https://www.geeksforgeeks.org/longest... f. https://www.geeksforgeeks.org/longest... g. https://www.geeksforgeeks.org/longest... -Bonus: a. https://www.interviewbit.com/courses/... b. https://leetcode.com/tag/dynamic-prog...