**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_8CaSLPWekqhdCPmFohncHwz8TY2Go&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-like-amazon-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>

Binary Search: <https://www.youtube.com/watch?v=GU7DpgHINWQ>