**PLACEMENT PREPARATION - 2021**

**AIM-SUPERDREAM**

**Important Array Questions:**

1. Sort elements by frequency(asked in a lot of companies - barclays, grofers, etc )

Link:<https://www.geeksforgeeks.org/sort-elements-by-frequency/>

1. Trapping Rain Water (asked in Accolite and a few other companies)

Link: <https://practice.geeksforgeeks.org/problems/trapping-rain-water/0>

1. Maximum difference between two elements such that larger element appears after the smaller number (asked in mathworks)

Link: <https://www.geeksforgeeks.org/maximum-difference-between-two-elements/>

1. Word Ladder (Length of shortest chain to reach a target word) - (asked in media.net and buyhatke)

Link:<https://www.geeksforgeeks.org/word-ladder-length-of-shortest-chain-to-reach-a-target-word/>

1. Replace every element with the greatest element on right side(asked in payoda)

Link:<https://www.geeksforgeeks.org/replace-every-element-with-the-greatest-on-right-side/>

1. Sieve Of Eratosthenes (very important)

Link: <https://www.geeksforgeeks.org/sieve-of-eratosthenes/>

**Important String Questions:**

1. Count of total anagram substrings(asked in payoda)

Link: <https://www.geeksforgeeks.org/count-total-anagram-substrings/>

1. Minimum number of adjacent swaps to convert a string into its given anagram

Link:<https://www.geeksforgeeks.org/minimum-number-of-adjacent-swaps-to-convert-a-string-into-its-given-anagram/>

1. Group Anagrams Together

Link:<https://www.geeksforgeeks.org/given-a-sequence-of-words-print-all-anagrams-together/>

**Important Dynamic Programming Questions:**

1. 0/1 Knapsack Problem: (asked in TCS Digital)

Link: <https://www.geeksforgeeks.org/0-1-knapsack-problem-dp-10/>

1. Longest Increasing Subsequence (asked in Amazon)

Link: <https://www.geeksforgeeks.org/longest-increasing-subsequence-dp-3/>

1. Count Possible Decodings of a given Digit Sequence(asked in Amazon and OYO)

Link: <https://www.geeksforgeeks.org/count-possible-decodings-given-digit-sequence/>

1. Variation of Coin Change Problem (asked in DeShaw)

Link: <https://www.geeksforgeeks.org/coin-change-dp-7/>

1. Minimum insertions to form a palindrome(asked in Grofers Interview)

Link: <https://www.geeksforgeeks.org/minimum-insertions-to-form-a-palindrome-dp-28/>

1. Min Cost Path (asked in Accolite)

Link: <https://www.geeksforgeeks.org/min-cost-path-dp-6/>

1. Minimum Operations (asked in accolite)

Link: <https://practice.geeksforgeeks.org/problems/find-optimum-operation/0>

**Note:**

1. All these questions are other than must do coding questions from geeksforgeeks. All must do coding questions of Arrays and Strings and Hashing need to be done.
2. All above questions came in more than 1 company. So these need to be done as well.
3. For Dynamic Programming section of Must Do Coding Questions you can LEAVE Box Stacking, Subset Sum Problem, Optimal Strategy, Shortest Common Supersequence, Minimum Sum Partition questions.
4. All those questions and algorithms I suggest should be noted down on registers so that you can look at them a day before you sit for company placement tests and interviews.