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| Week | Topics/Tasks  <https://www.interviewbit.com/courses/programming/>  + Algorithms book+ GeeksforGeeks |
| 23-29 March | 1. Pick a programming language 2. Review Basics of your Programming language: 3. Read/Write from files 4. Read Input from console 5. Split Strings 6. 2D Arrays usage (length vs size function or property). 7. Classes/ functions 8. Data Structures Review (using your language): (implement all in your programming language) 9. Arrays 10. Stacks 11. Queues 12. Linked List 13. Trees (General/Binary Search/ Red Black/ B-trees) 14. Graphs (BFS/DFS) (directed/undirected) (MST/Kruskal/Prim/Bellman-ford/Dijkstra/ Floyd-warshall) 15. Hash Tables 16. Heaps 17. Sorting (Insertion/ Merge/Heap /Quick /Radix /Bucket /Counting) 18. Searching 19. Dynamic Programming 20. Greedy Algorithm |
| 1. March- 5 April | 1. Practice Simple Array Algorithmic challenges: 2. Remove Even Integers from Array 3. Merge two sorted Arrays 4. First Non-repeating Integer in an array 5. Find Second Maximum Value in an array 6. Practice Simple Linked List problems: 7. Find length of linked list 8. Search in Single Linked List 9. Reverse A Linked List 10. Find middle value of a linked list 11. Practice Simple Queue/Stack Problems: 12. Sort values in stack 13. Create a stack which returns a minimum value in O(1) 14. Implement Two Stacks using one Array 15. Practice tree Problems: 16. Find a minimum value in binary search tree 17. Find height of Binary tree 18. Find kth maximum value in binary search tree 19. Practice Graph Problems: 20. BFS 21. DFS 22. Detect a cycle in a graph 23. Practice heap problems: 24. Find K smallest elements in a list 25. Find k largest elements in an array |
| 6-12 April | 1. Find Intersection of two linked lists 2. Reverse words in a sentence 3. Check if two binary trees are identical 4. Clone a directed graph 5. Determine if there are any three integers in an array that sum equal to a given value. |
| <https://leetcode.com/>  3-5 questions weekly | |

We can extend one week-two week for so deadline can be moved from 12th April -> 30th April