

DSA Winter Bootcamp 2.0

0. Warm-up

1. [Running Sum of 1d Array](#)
 2. [Find the Highest Altitude](#)
 3. [Squares of a Sorted Array](#)
 4. [Move Zeroes](#)
 5. [Jewels and Stones](#)
 6. [Fizz Buzz](#)
 7. [Valid Anagram](#)
 8. [Reverse Vowels of a String](#)
 9. [Valid Palindrome](#)
 - Basic Understanding of Data structures in your language (C++ STL, C# Collections, Python Standard Library)
 - In C++: https://youtu.be/RRVYplET_RU?si=xI1JBIVbtCkj_lq7
 - If you like C++ and more details > My code school Data Structures
 - https://www.youtube.com/playlist?list=PL2_aWCzGMAwI3W_JlcBbtYTWiQSsOTa6P (C++)
 - If you like Python > code basics - Data Structures
 - https://www.youtube.com/playlist?list=PLeo1K3hjS3uu_n_a_MI_KktGTLYopZ12
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1. Arrays & Hashing

1. [Two Sum](#)
 2. [Contains Duplicate](#)
 3. [Best Time to Buy and Sell Stock](#)
 4. [Product of Array Except Self](#)
 5. [Maximum Subarray](#)
 6. [Merge Intervals](#)
 7. [Find the Difference of Two Arrays](#)
 8. [Subarray Sum Equals K](#)
 9. [Longest Consecutive Sequence](#)
 10. [4Sum](#)
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2. Strings

11. [Reverse String](#)
12. [Merge Strings Alternately](#)
13. [Longest Substring Without Repeating Characters](#)
14. [Valid Parentheses](#)
15. [Roman to Integer](#)

- 16. [Integer to Roman](#)
 - 17. [Repeated substring pattern](#)
 - 18. [Isomorphic Strings](#)
 - 19. [Is Subsequence](#)
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3. Sliding Window

- 21. Maximum Average Subarray I
 - 22. Minimum Window Substring
 - 23. Sliding Window Maximum
 - 24. Longest Repeating Character Replacement
 - 25. Longest Substring with At Most Two Distinct Characters
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4. Two Pointers

- 26. Reverse String
 - 27. Move Zeroes
 - 28. Remove Duplicates from Sorted Array
 - 29. Trapping Rain Water
 - 30. 3Sum
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5. Binary Search

- 31. Binary Search
 - 32. Search in Rotated Sorted Array
 - 33. Find Minimum in Rotated Sorted Array
 - 34. Median of Two Sorted Arrays
 - 35. Split Array Largest Sum
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6. Linked List

- 36. Reverse Linked List
 - 37. Merge Two Sorted Lists
 - 38. Linked List Cycle
 - 39. Remove Nth Node From End of List
 - 40. Add Two Numbers
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7. Trees and Binary Search Trees

- 41. Invert Binary Tree
- 42. Binary Tree Level Order Traversal

- 43. Validate Binary Search Tree
- 44. Lowest Common Ancestor of a Binary Search Tree
- 45. Serialize and Deserialize Binary Tree