

Topic	Youtube Link	Problem link
11.Heaps		
11.1Learning		
Introduction to Priority Queues using Binary Heaps		https://www.geeksforgeeks.org/problems/implementation-of-priority-queue-using-binary-heaps/1?utm_source=youtube&utm_medium=collab_striver_ydescription&utm_campaign=implementation-of-priority-queue-using-binary-heap
Min Heap and Max Heap Implementation		https://www.geeksforgeeks.org/problems/operations-on-binary-min-heap/1?utm_source=youtube&utm_medium=collab_striver_ydescription&utm_campaign=operations-on-binary-min-heap
Check if an array represents a min-heap or not		https://www.geeksforgeeks.org/problems/does-array-represent-heap345/1?utm_source=youtube&utm_medium=collab_striver_ydescription&utm_campaign=does-array-represent-heap
Convert min Heap to max Heap		https://www.geeksforgeeks.org/problems/convert-min-heap-to-max-heap-166385109/1?utm_source=youtube&utm_medium=collab_striver_ydescription&utm_campaign=convert-min-heap-to-max-heap
11.2medium problems		
sort K sorted array		https://leetcode.com/problems/kth-largest-element-in-an-array/
Kth smallest element in an array [use priority queue]		https://www.geeksforgeeks.org/problems/kth-smallest-element5635/1?utm_source=youtube&utm_medium=collab_striver_ydescription&utm_campaign=kth-smallest-element
Sort K sorted array		https://www.geeksforgeeks.org/problems/merge-k-sorted-arrays/1?utm_source=youtube&utm_medium=collab_striver_ydescription&utm_campaign=merge-k-sorted-arrays
Merge M sorted Lists		https://leetcode.com/problems/merge-k-sorted-lists/
Replace each array element by its corresponding rank		https://www.geeksforgeeks.org/problems/replace-elements-by-its-rank-in-the-array/1?utm_source=youtube&utm_medium=collab_striver_ydescription&utm_campaign=replace-elements-by-its-rank-in-the-array
Task Scheduler		https://leetcode.com/problems/task-scheduler/
Hands of Straights		https://leetcode.com/problems/hand-of-straights/
11.3Hard problems		
Design twitter		https://leetcode.com/problems/design-twitter/description/
Connect 'n' ropes with minimal cost		https://www.geeksforgeeks.org/problems/rod-cutting0840/1?utm_source=youtube&utm_medium=collab_striver_ydescription&utm_campaign=rod-cutting
Kth largest element in a stream of running integers		https://leetcode.com/problems/kth-largest-element-in-a-stream/description/
Maximum Sum Combination		https://www.interviewbit.com/problems/maximum-sum-combinations/
Find Median from Data Stream		https://leetcode.com/problems/find-median-from-data-stream/description/
K most frequent elements		https://leetcode.com/problems/top-k-frequent-elements/description/
12. Greedy Algorithms		
12.1 Easy problems		
Assign Cookies	https://www.youtube.com/watch?v=DIX2p7v89c0	https://leetcode.com/problems/assign-cookies/
Fractional Knapsack Problem	https://www.youtube.com/watch?v=8R28y3apH0oZVHE&v=1bsQrmVEQ&feature=youtu.be	https://practice.geeksforgeeks.org/problems/fractional-knapsack-1587115620/1
Greedy algorithm to find minimum number of coins	https://www.youtube.com/watch?v=miY9GCUyayM&list=PLqLwDyBIlf04sDR_kJ3kONb1wcz2Ma&index=48	https://www.geeksforgeeks.org/find-minimum-number-of-coins-that-make-a-change/
Lemonade Change	https://www.youtube.com/watch?v=n_tmkEHcO6Q	https://leetcode.com/problems/lemonade-change/
Valid Parenthesis Checker	https://www.youtube.com/watch?v=xRHeYh7QaLaTy3g&v=cHT6eG_hUZI&feature=youtu.be	https://leetcode.com/problems/valid-parenthesis-string/
12.2 Medium/Hard		
N meetings in one room	https://www.youtube.com/watch?v=mkKhTofEguk	https://practice.geeksforgeeks.org/problems/n-meetings-in-one-room-1587115620/1
Jump Game	https://www.youtube.com/watch?v=voKd7n9VTILDRRNzJ&v=iZAa_jJ3SwQ&feature=youtu.be	https://leetcode.com/problems/jump-game/
Jump Game 2	https://www.youtube.com/watch?v=9uUouBELh9K3m2Z&v=7SBVnw7GSTk&feature=youtu.be	https://leetcode.com/problems/jump-game-ii/
Minimum number of platforms required for a railway	https://www.youtube.com/watch?v=165acXU_dhgQHuo&v=AeGzwR_FWok&feature=youtu.be	https://practice.geeksforgeeks.org/problems/minimum-platforms-1587115620/1#
Job sequencing Problem	https://www.youtube.com/watch?v=wywemJ5BLPItrmkG&v=QbwlemZrRp&feature=youtu.be	https://practice.geeksforgeeks.org/problems/job-sequencing-problem-1587115620/1#
Candy	https://www.youtube.com/watch?v=EjmwXZINLQULkEd7&v=llqVfVrKERVX&feature=youtu.be	https://leetcode.com/problems/candy/
Program for Shortest Job First (or SJF) CPU Scheduling	https://www.youtube.com/watch?v=I8QZUkt01F7Uo&v=s3-QbXU1DbX&feature=youtu.be	https://bit.ly/3DYCfih
Program for Least Recently Used (LRU) Page Replacement Algorithm		https://bit.ly/3dIFqHG
Insert Interval	https://www.youtube.com/watch?v=a7aPulw16xDr2Aa&v=xxRE_46OCC8&feature=youtu.be	https://leetcode.com/problems/insert-interval/
Merge Intervals	https://www.youtube.com/watch?v=2JzR8PFYbKE&list=PLqLwDyBIlf0PG3lctw74YWBQ1CaBkm2&index=6	https://leetcode.com/problems/merge-intervals/
Non-overlapping Intervals	https://www.youtube.com/watch?v=ZYILqbcGdpUTOVf&v=HdHQ8AWakY&feature=youtu.be	https://leetcode.com/problems/non-overlapping-intervals/
13.Binary trees		
13.1 Traversals		
Introduction to Trees	https://www.youtube.com/watch?v=ANf3FJm7I	https://bit.ly/3EzRmTM
Binary Tree Representation in C++	https://www.youtube.com/watch?v=ctC9P8FDQg	https://bit.ly/3pnS5ch
Binary Tree Representation in Java	https://www.youtube.com/watch?v=chYvW7rF24I	https://bit.ly/3pnS5ch
Binary Tree Traversals in Binary Tree	https://www.youtube.com/watch?v=ejmY0LaGETI	https://www.codeninjas.com/codestudio/problems/tree-traversal_981269?utm_source=striver&utm_medium=website&utm_campaign=a_zoursetuf
Preorder Traversal of Binary Tree	https://www.youtube.com/watch?v=RIIuJ2JcOQQ	https://leetcode.com/problems/binary-tree-preorder-traversal/
Inorder Traversal of Binary Tree	https://www.youtube.com/watch?v=z_NFaBqRvI/	https://leetcode.com/problems/binary-tree-inorder-traversal/
Post-order Traversal of Binary Tree	https://www.youtube.com/watch?v=cCQOU8ks8g	https://leetcode.com/problems/binary-tree-postorder-traversal/
Level order Traversal / Level order traversal in spiral form	https://www.youtube.com/watch?v=EqAsWbO7azg	https://leetcode.com/problems/binary-tree-level-order-traversal/
Iterative Preorder Traversal of Binary Tree	https://www.youtube.com/watch?v=BfsdSBaPvuw	https://leetcode.com/problems/binary-tree-preorder-traversal/
Iterative Inorder Traversal of Binary Tree	https://www.youtube.com/watch?v=ixTGvX9wvM/	https://leetcode.com/problems/binary-tree-inorder-traversal/
Post-order Traversal of Binary Tree using 2 stack	https://www.youtube.com/watch?v=2YBhNlodD8Q	https://leetcode.com/problems/binary-tree-postorder-traversal/
Post-order Traversal of Binary Tree using 1 stack	https://www.youtube.com/watch?v=NzGILwZ8S8	https://leetcode.com/problems/binary-tree-postorder-traversal/
Preorder, Inorder, and Postorder Traversal in one Traversal	https://www.youtube.com/watch?v=ySp2epYvsTE	https://bit.ly/3T3wV9M
13.2 Medium Problems		
Height of a Binary Tree	https://www.youtube.com/watch?v=sO3mO86aBA	https://leetcode.com/problems/maximum-depth-of-binary-tree/
Check if the Binary tree is height-balanced or not	https://www.youtube.com/watch?v=Yl50Jb8P0g	https://leetcode.com/problems/balanced-binary-tree/
Diameter of Binary Tree	https://www.youtube.com/watch?v=RzeLez59Nk	https://leetcode.com/problems/diameter-of-binary-tree/
Maximum path sum	https://www.youtube.com/watch?v=WszrSwMz58	https://leetcode.com/problems/binary-tree-maximum-path-sum/
Check if two trees are identical or not	https://www.youtube.com/watch?v=BhwvF_PWS0	https://leetcode.com/problems/same-tree/
Zig Zag Traversal of Binary Tree	https://www.youtube.com/watch?v=3DXWE6tGH&feature=youtu.be	https://leetcode.com/problems/binary-tree-zigzag-level-order-traversal/
Boundary Traversal of Binary Tree	https://www.youtube.com/watch?v=5oa1m9R0eet	https://leetcode.com/problems/boundary-of-binary-tree/
Vertical Order Traversal of Binary Tree	https://www.youtube.com/watch?v=cj_a928Kz59&feature=youtu.be	https://leetcode.com/problems/vertical-order-traversal-of-a-binary-tree/
Top View of Binary Tree	https://www.youtube.com/watch?v=Ed9QCD4uZ78	https://practice.geeksforgeeks.org/problems/top-view-of-binary-tree/
Bottom View of Binary Tree	https://www.youtube.com/watch?v=9FYv94akB8	https://practice.geeksforgeeks.org/problems/bottom-view-of-binary-tree/1
Right/Left View of Binary Tree	https://www.youtube.com/watch?v=KV4mRcTjAk	https://leetcode.com/problems/binary-tree-right-side-view/
Symmetric Binary Tree		https://leetcode.com/problems/symmetric-tree/
13.3 Hard Problems		
Root to Node Path in Binary Tree	https://www.youtube.com/watch?v=ftmMqVOC7k	https://bit.ly/3QA600D

LCA in Binary Tree	https://www.youtube.com/watch?v=-QlHMDe90	https://leetcode.com/problems/lowest-common-ancestor-of-a-binary-tree/
Maximum width of a Binary Tree	https://www.youtube.com/watch?v=ZbYbYvcVLks	https://leetcode.com/problems/maximum-width-of-binary-tree/
Check for Children Sum Property	https://www.youtube.com/watch?v=fmjaPM6cVg	https://bit.ly/3dEr73g
Print all the Nodes at a distance of K in a Binary Tree	https://www.youtube.com/watch?v=9QRIEY6Esl	https://leetcode.com/problems/all-nodes-distance-k-in-binary-tree/
Minimum time taken to BURN the Binary Tree from a Node	https://www.youtube.com/watch?v=25wLmQID6g	https://bit.ly/3wcz7k1
Count total Nodes in a COMPLETE Binary Tree	https://www.youtube.com/watch?v=u-yWemKGQW0Q	https://leetcode.com/problems/count-complete-tree-nodes/
Requirements needed to construct a Unique Binary Tree Theory	https://www.youtube.com/watch?v=9GMECQGQWtQ	https://bit.ly/3UVCRIU
Construct Binary Tree from inorder and preorder	https://www.youtube.com/watch?v=aZNaI-r6bkQ	https://leetcode.com/problems/construct-binary-tree-from-preorder-and-inorder-traversal/
Construct the Binary Tree from Postorder and Inorder Traversal	https://www.youtube.com/watch?v=LqLRTaEMRyc	https://leetcode.com/problems/construct-binary-tree-from-inorder-and-postorder-traversal/
Serialize and deserialize Binary Tree	https://www.youtube.com/watch?v=7D3ySKJxX8	https://leetcode.com/problems/serialize-and-deserialize-binary-tree/
Morris Preorder Traversal of a Binary Tree	https://www.youtube.com/watch?v=80Zug5D1_r4&feature=youtu.be	https://leetcode.com/problems/binary-tree-inorder-traversal/
Morris Inorder Traversal of a Binary Tree	https://www.youtube.com/watch?v=80Zug5D1_r4&feature=youtu.be	https://leetcode.com/problems/binary-tree-inorder-traversal/
Flatten Binary Tree to LinkedList	https://www.youtube.com/watch?v=sW7X1x9XR4	https://leetcode.com/problems/flatten-binary-tree-to-linked-list/