GeeksforGeeks A computer science portal for geeks Placements Practice GATECS IDE Q&A GeeksQuiz

Binary Tree:

- 1. Binary Tree Introduction
- 2. Binary Tree Properties
- 3. Types of Binary Tree
- 4. Handshaking Lemma and Interesting Tree Properties
- 5. Enumeration of Binary Tree
- 6. Applications of tree data structure
- 7. Tree Traversals
- 8. BFS vs DFS for Binary Tree
- 9. Level Order Tree Traversal
- 10. Print level order traversal line by line
- 11. Inorder Tree Traversal without Recursion
- 12. Inorder Tree Traversal without recursion and without stack!
- 13. Threaded Binary Tree
- 14. Size of a tree
- 15. Determine if Two Trees are Identical
- 16. Maximum Depth or Height of a Tree
- 17. Write a C program to Delete a Tree.
- 18. Write an Efficient C Function to Convert a Binary Tree into its Mirror Tree
- 19. If you are given two traversal sequences, can you construct the binary tree?
- 20. Given a binary tree, print out all of its root-to-leaf paths one per line.
- 21. The Great Tree-List Recursion Problem.
- 22. Count leaf nodes in a binary tree
- 23. Level order traversal in spiral form
- 24. Check for Children Sum Property in a Binary Tree.
- 25. Convert an arbitrary Binary Tree to a tree that holds Children Sum Property
- 26. Diameter of a Binary Tree
- 27. How to determine if a binary tree is height-balanced?
- 28. Root to leaf path sum equal to a given number

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- 29. Construct Tree from given Inorder and Preorder traversals
- 30. Given a binary tree, print all root-to-leaf paths
- 31 Double Tree
- 32. Maximum width of a binary tree
- 33. Foldable Binary Trees
- 34. Print nodes at k distance from root
- 35. Get Level of a node in a Binary Tree
- 36. Print Ancestors of a given node in Binary Tree
- 37. Check if a given Binary Tree is SumTree
- 38. Check if a binary tree is subtree of another binary tree
- 39. Connect nodes at same level
- 40. Connect nodes at same level using constant extra space
- 41. Populate Inorder Successor for all nodes
- 42. Convert a given tree to its Sum Tree
- 43. Vertical Sum in a given Binary Tree
- 44. Find the maximum sum leaf to root path in a Binary Tree
- 45. Construct Special Binary Tree from given Inorder traversal
- 46. Construct a special tree from given preorder traversal
- 47. Check whether a given Binary Tree is Complete or not
- 48. Boundary Traversal of binary tree
- 49. Construct Full Binary Tree from given preorder and postorder traversals
- 50. Iterative Preorder Traversal
- 51. Morris traversal for Preorder
- 52. Linked complete binary tree & its creation
- 53. Ternary Search Tree
- 54. Largest Independent Set Problem
- 55. Iterative Postorder Traversal | Set 1 (Using Two Stacks)
- 56. Iterative Postorder Traversal | Set 2 (Using One Stack)
- 57. Reverse Level Order Traversal
- 58. Construct Complete Binary Tree from its Linked List Representation
- 59. Convert a given Binary Tree to Doubly Linked List | Set 1
- 60. Tree Isomorphism Problem
- 61. Find all possible interpretations of an array of digits
- 62. Iterative Method to find Height of Binary Tree
- 63. Custom Tree Problem
- 64. Convert a given Binary Tree to Doubly Linked List | Set 2
- 65. Print ancestors of a given binary tree node without recursion
- 66. Difference between sums of odd level and even level nodes of a Binary Tree
- 67. Print Postorder traversal from given Inorder and Preorder traversals
- 68. Find depth of the deepest odd level leaf node
- 69. Check if all leaves are at same level

- 70. Print Left View of a Binary Tree
- 71. Remove all nodes which don't lie in any path with sum>= k
- 72. Extract Leaves of a Binary Tree in a Doubly Linked List
- 73. Deepest left leaf node in a binary tree
- 74. Find next right node of a given key
- 75. Sum of all the numbers that are formed from root to leaf paths
- 76. Convert a given Binary Tree to Doubly Linked List | Set 3
- 77. Lowest Common Ancestor in a Binary Tree | Set 1
- 78. Find distance between two given keys of a Binary Tree
- 79. Print all nodes that are at distance k from a leaf node
- 80. Check if a given Binary Tree is height balanced like a Red-Black Tree,
- 81. Print all nodes at distance k from a given node
- 82. Print a Binary Tree in Vertical Order | Set 1
- 83. Construct a tree from Inorder and Level order traversals
- 84. Find the maximum path sum between two leaves of a binary tree
- 85. Reverse alternate levels of a perfect binary tree
- 86. Check if two nodes are cousins in a Binary Tree
- 87. Check if a binary tree is subtree of another binary tree | Set 2
- 88. Serialize and Deserialize a Binary Tree
- 89. Print nodes between two given level numbers of a binary tree
- 90. closest leaf in a Binary Tree
- 91. Convert a Binary Tree to Threaded binary tree
- 92. Print Nodes in Top View of Binary Tree
- 93. Bottom View of a Binary Tree
- 94. Perfect Binary Tree Specific Level Order Traversal
- 95. Convert left-right representation of a bianry tree to down-right
- 96. Minimum no. of iterations to pass information to all nodes in the tree
- 97. Clone a Binary Tree with Random Pointers
- 98. Given a binary tree, how do you remove all the half nodes?
- 99. Vertex Cover Problem | Set 2 (Dynamic Programming Solution for Tree)
- 100. Check whether a binary tree is a full binary tree or not
- 101. Find sum of all left leaves in a given Binary Tree
- 102. Remove nodes on root to leaf paths of length < K
- 103. Find Count of Single Valued Subtrees
- 104. Check if a given array can represent Preorder Traversal of Binary Search Tree
- 105. Mirror of n-ary Tree
- 106. Find multiplication of sums of data of leaves at sane levels
- 107. Succinct Encoding of Binary Tree
- 108. Construct Binary Tree from given Parent Array representation
- 109. Symmetric Tree (Mirror Image of itself)
- 110. Find Minimum Depth of a Binary Tree

- 111. Maximum Path Sum in a Binary Tree
- 112. Expression Tree
- 113. Check whether a binary tree is a complete tree or not | Set 2 (Recursive Solution)
- 114. Change a Binary Tree so that every node stores sum of all nodes in left subtree
- 115. Iterative Search for a key 'x' in Binary Tree
- 116. Find maximum (or minimum) in Binary Tree

Quiz on Binary Tree

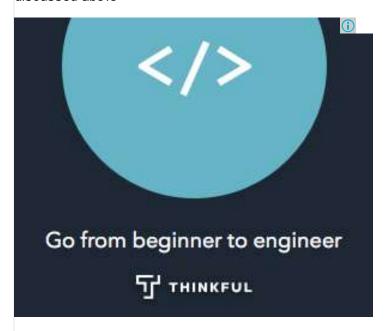
Quiz on Binary Tree Traversals

Forum Questions on Tree

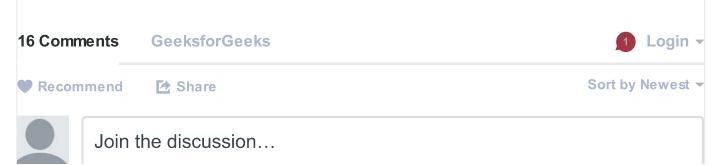
Data Structures

Ask a Question

Please write comments if you find anything incorrect, or you want to share more information about the topic discussed above



Company Wise Coding Practice Topic Wise Coding Practice





indrajeet kumar • a month ago

@GeeksforGeeks, please correct the spelling for question #106 above. it should be "Find multiplication of sums of data of leaves at same levels" instead of "Find multiplication of sums of data of leaves at sane levels"...



Abhilash • 3 months ago

link 20 and 30 are same



Paras Karandikar • 3 months ago

in the function for printing leaves, can the condition for checking the leaf node be written above left recursive call?



Shreya Kataria • 3 months ago

Please add the following link to the archive:

http://www.geeksforgeeks.org/c...



Shreya Kataria • 4 months ago

Post number 102 and 71 are same and one of them can be removed.



no_limit • 4 months ago

This is a request to those who post a code(idea) different than methods given by geeks for geeks.

DON'T JUST POST THE CODE.

Write

your idea in pseudo code format too. It is always easy to understand a pseudo code than a code without comments. Otherwise your code or your method is of no use to some people.

Thank You.



ritesh thakur • 6 months ago

@GeeksforGeeks question number 20 and 30 are the same ,please remove 30th one



GeeksforGeeks Mod • 7 months ago

@All, thanks for your inputs. We have removed duplicates.





Kataria Deepak → GeeksforGeeks • 7 months ago

Thanks...!!!



.NetGeek • 7 months ago

@GeeksforGeeks Please remove the repeated questions in the list:

103, 118 - Iterative Search for a key 'x' in Binary Tree

104, 119 - Find maximum (or minimum) in Binary Tree

105, 114 - Maximum Path Sum in a Binary Tree

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Akhilesh • 7 months ago

Please remove the repeated questions in the list:

103, 118 - Iterative Search for a key 'x' in Binary Tree

104, 119 - Find maximum (or minimum) in Binary Tree

105, 114 - Maximum Path Sum in a Binary Tree



Kataria Deepak • 7 months ago

@GeeksforGeeks

Please remove the repeated questions in the list:

103, 118 - Iterative Search for a key 'x' in Binary Tree

104, 119 - Find maximum (or minimum) in Binary Tree

105, 114 - Maximum Path Sum in a Binary Tree

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Utkarsh Agrawal • 8 months ago

Please remove the repeated questions in the list:

103, 118 - Iterative Search for a key 'x' in Binary Tree

104, 119 - Find maximum (or minimum) in Binary Tree

105, 114 - Maximum Path Sum in a Binary Tree



Solazy • 8 months ago

http://ideone.com/KPbscp, C++ solution using queues

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sankalp pandey • 10 months ago

Q27 binary tree link is wrong. Its pointing to a different question



GeeksforGeeks Mod → sankalp pandey • 10 months ago

Thanks for pointing this out. We have corrected the link.

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