

<u>Data Structures & Algorithms</u> <u>using Python</u>

Quiz Answers

Binary Trees 1

Name : Harsh Siddhapura

Degree : Bachelor of Technology

Dept. : Information & Communication Technology

Harsh Siddhapura

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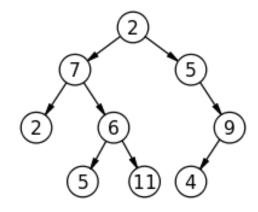
Quiz Answers



1. A node in Binary trees can have how many children?

2 any number of children **0 or 1 or 2** 0 or 1

2. Consider the below code
def takeInput():
 print("Enter root data")
 rootData = int(input())
 if (rootData == -1) {
 return None
 }
 root = BinaryTreeNode(rootData)
 root.left = takeInput()
 root.right = takeInput()
 return root



What will be the input (excluding -1) to above code to construct this tree?

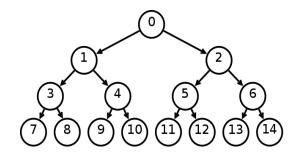
1) 2726511594

- 2) 2756112549
- 3) 2752695114

.....

3. Print given tree level wise

1) 0 1 3 7 8 4 9 10 2 5 11 12 6 13 14 **2) 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14** 3) 0 2 1 6 5 4 3 14 13 12 11 10 9 8 7



4. The maximum and minimum number of nodes in a binary tree of height 6 are A tree with zero node has height 0 A tree with one node has height 1

63 and 6, respectively

64 and 5, respectively 32 and 6, respectively 31 and 5, respectively