

## Vertical order

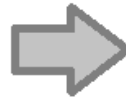
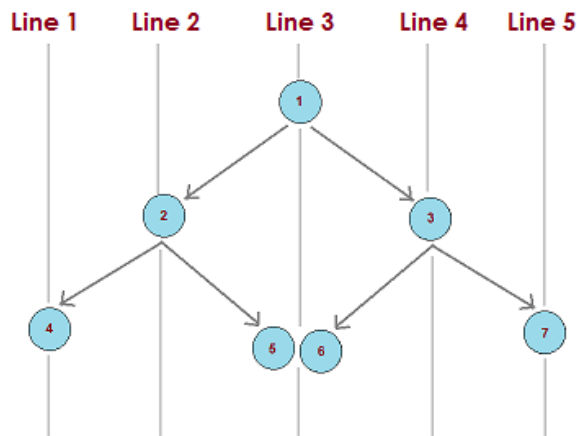
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Given a binary tree, print that binary tree in vertical order. Vertical order is -

**Print a Binary Tree in Vertical Order**

**Input**

**Output**



Print data in Line 1  
Print data in Line 2  
Print data in Line 3  
Print data in Line 4  
Print data in Line 5

4  
2  
1 5 6  
3  
7

Print the nodes which are at same vertical order in same line separated by space. Print different levels in different lines.

Order of different levels in different lines is not important. But in one level, print the element in pre-order format.

**Input Format :**

Elements in level order form (separated by space). If any node does not have left or right child, take -1 in its place

**Output Format :**

Required output in given format

**Sample Input :**

1 2 3 4 5 6 7 -1 8 -1 -1 -1 -1 -1 -1 -1

**Sample Output :**

7  
3  
4  
2 8  
1 5 6