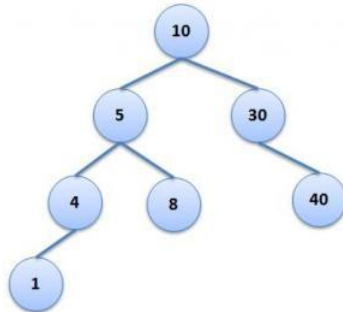


PRINT ALL NODES AT DISTANCE K FROM ROOT OF A BINARY TREE



Given a Binary Tree and a positive integer 'k', write code which will print all the nodes which are at distance 'k' from the root.

For example: For Binary Tree on the right side, Following are the nodes which should get printed for the below values of 'k'

k	output
---	--------

---	-----
-----	-------

0	10
---	----

1	5 30
---	------

2	4 8 40
---	--------

3	1
---	---

Solution:

```
1 void printNodeAtDistance(Node *root , int k)
2 {
3     if(root == NULL || k < 0)
4         return;
5
6     if( k == 0 )
7     {
8         printf( "%d ", root->data );
9     }
10    else
11    {
12        printNodeAtDistance( root->left, k-1 );
13        printNodeAtDistance( root->right, k-1 );
14    }
15 }
```

Source: <http://www.ritambhara.in/print-all-nodes-at-distance-k-from-root-of-a-binary-tree/>