Get leaf nodes of BST.

How to spot the leaf nodes? Simple, check if the node has left or right child. If none children are present then it is leaf node else traverse down further.

We will use above BST for our example so output should be 2, 7, 12, 17.

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\* Gets the leafs.

\*

\* **@param** root the root

\*/

**public** **void** getLeafs(Node root) {

//Declare a Queue. Here we traverse in Breadth First Search

Queue<Node> q= **new** LinkedList<Node>();

**if** (root == **null**)

**return**;

//Add root so we can further process the children.

q.add(root);

//Run loop till queue is not empty

**while** (!q.isEmpty()) {

//remove the root

root = q.poll();

//check for leaf condition

**if** (root.leftChild == **null** && root.rightChild == **null**) {

//if satisfied then print it.

System.***out***.println("Found leaf " + root.iData);

}

//left child exists insert in queue

**if** (root.leftChild != **null**){

q.add(root.leftChild);

}

//right child exists insert in queue

**if** (root.rightChild != **null**){

q.add(root.rightChild);

}

}

}

Output:

Found leaf 2

Found leaf 7

Found leaf 12

Found leaf 17