```
public boolean equal(BST <T> t2)
  return equal(root,t2.root);
private boolean equal(BSTNode <T> t1,BSTNode <T> t2)
  if (t1 == null && t2 == null)
   return true;
  else if (t1 == null \parallel t2 == null)
   return false;
  else if(t1.key != t2.key)
   return false;
  return equal(t1.left,t2.left) && equal(t1.right,t2.right);
}
public boolean isFull()
  return isFull(root);
private boolean isFull(BSTNode <T> t)
  return countNodes(t) == Math.pow(2,height(t)) 1;
public boolean isBSTNoStack()
     return isBSTNoStack(root);
}
```

```
private boolean isBSTNoStack(BSTNode<T> t)
              boolean bst = true;
              if (t != null)
                     if (t.left != null)
                             if (t.key < t.left.key)</pre>
                                     bst = false;
                             bst = bst && isBSTNoStack(t.left);
                      }
                     if (t.right != null)
                             if (t.key > t.right.key)
                                     bst = false;
                             bst = bst && isBSTNoStack(t.right);
                      }
              }
              return bst;
      }
 public BST<T> copyBST()
   if (root == null)
    return null;
   BST < T > t = new BST < T > ();
   copy(root,t);
   return t;
 }
 private void copy(BSTNode <T> t1,BST<T> t2)
   if (t1 != null)
    t2.insert(t1.key,t1.data);
    copy(t1.left,t2);
    copy(t1.right,t2);
 }
```

```
public BST<T> reverseBST()
   if (root == null)
   return null;
   BST < T > t = new BST < T > ();
   reverse(root,t);
   return t;
}
private void reverse(BSTNode <T> t1,BST<T> t2)
   if (t1 != null)
   t2.root = t2.insertReverse(t2.root,t1.key,t1.data);
   reverse(t1.left,t2);
   reverse(t1.right,t2);
}
     private BSTNode <T> insertReverse(BSTNode <T> t,int key,T data)
{
   if (t == null)
   t = <u>new BSTNode<T>(key,null,null)</u>;
   t.data = data;
   else if (key > t.key)
        t.left = insertReverse(t.left,key,data);
   else if (key < t.key)</pre>
        t.right = insertReverse(t.right,key,data);
   else
        System.out.println("Duplicates not allowed");
   return t;
}
```

```
public void mirror()
  mirror(root);
}
private void mirror(BSTNode <T> t)
  if (t != null)
   mirror(t.left);
   mirror(t.right);
   BSTNode <T> temp = t.left;
   t.left = t.right;
   t.right = temp;
}
private void printByLevel(BSTNode<T> t)
            if (t != null)
                   LinkQueue<BSTNode<T>> q = new LinkQueue<BSTNode<T>>();
                   q.enqueue(t);
                   while (q.length() != 0)
                           t = (BSTNode<T>) q.serve();
                           System.out.println(t.data);
                           if (t.left != null)
                                  q.enqueue(t.left);
                    }
            }
}
```