```
Prob. 1 / 1
    private boolean areMirror(BTNode<T> t1, BTNode<T> t2)
        if (t1 == null && t2 == null)
            return true;
        if (t1 == null || t2 == null)
            return false;
        return t1.data == t2.data && areMirror(t1.left,
t2.right) && areMirror(t1.right, t2.left);
   }
Prob. 1 / 2
    private void swap(BTNode<T> t)
    {
     if (t != null)
     {
          if (t.left != null)
               t.left.data = t.data;
          else if (t.right != null)
               t.right.data = t.data;
          swap(t.left);
          swap(t.right);
     }
    }
```

## Prob. 2 / 1

```
public static <T> LinkList<BTNode<T>>
collectLeaves(BT<BTNode<T>> bt) s{
          LinkList<BTNode<T>> 1 = new LinkList<BTNode<T>>();
          LinkStack<BTNode<T>> nodes = new
LinkStack<BTNode<T>>();
          bt.find(Relative.Root);
          nodes.push(bt.retrieve());
          while (! nodes.empty()){
               BTNode<T> current = nodes.pop();
               if (current.right != null)
                    nodes.push(current.right);
               if (current.left != null)
                    nodes.push(current.left);
               if (current.left == null && current.right== null)
                    l.insert(current);
          }
          return 1;
     }
<u>OR</u>
     public static <T> LinkList<BTNode<T>>
collectLeaves(BT<BTNode<T>> bt,LinkList<BTNode<T>> 1)
     {
          if (! bt.empty())
               if (bt.find(Relative.LeftChild) == true)
                    1 = collectLeaves(bt, 1);
               if (bt.retrieve().left == null &&
bt.retrieve().right == null)
                    1.insert(bt.retrieve());
               if (bt.find(Relative.RightChild) == true)
                    1 = collectLeaves(bt, 1);
          return 1;
     }
```

```
<u>Prob 4 - 1</u>
```

```
private void swapData(int k)
     if (! empty())
     {
          if(findkey(k))
          {
               T val = null;
               BSTNode<T> q = new BSTNode<T>(k, val);
               BSTNode<T> p = findparent(q);
               update(k, p.data);
          }
     }
    }
Prob 4 -2
    private void inorder(BSTNode<T> p)
        if (p != null)
        {
          inorder(p.right);
          System.out.println(p.key);
```

inorder(p.left);

}

}