Computer Science II	Lab 15B – LINKED LIST FUNHOUSE	Lab Value - 100

Lab Goal : This lab was designed to teach you more about a linked list and passing a linked list as a parameter.

Lab Description : Use ListNode to write some basic LinkedList methods.

PART 1 – Open the `ListFunHouse.java` fill and complete the methods in this class.
PART 2 – Use `lab15b.java` to test your ListFunHouse class.

ListNode – stores a value and a reference to the next node

```
public class ListNode implements Linkable
{
   private Comparable listNodeValue;
   private ListNode nextListNode;

   public ListNode(){
      listNodeValue = null;
      nextListNode = null;
   }

   public ListNode(Comparable value, ListNode next){
      listNodeValue=value;
      nextListNode=next;
   }

   public Comparable getValue(){
      return listNodeValue;
   }

   public ListNode getNext(){
      return nextListNode;
   }

   public void setValue(Comparable value){
      listNodeValue = value;
   }

   public void setNext(Linkable next){
      nextListNode = (ListNode)next;
   }
}
```

Files Needed ::

ListNode.java
Linkable.java
ListFunHouse.java
Lab15b.java

Sample Data :

See the main of lab15b

Sample Output :

```
                          Original list values:  go on at 34 2.1 -a-2-1 up over
                                                 num nodes = 8
          List values after calling nodeCount:  go on at 34 2.1 -a-2-1 up over
        List values after calling doubleFirst:  go go on at 34 2.1 -a-2-1 up over
         List values after calling doubleLast:  go go on at 34 2.1 -a-2-1 up over over
     List values after calling skipEveryOther:  go on 34 -a-2-1 over
   List values after calling removeXthNode(2):  go 34 over
  List values after calling setXthNode(2,one):  go one over
```