

LINKED LISTS WORKSHEET #2

More Linked Lists, including passing a linked list as a parameter.

In this exercise, you will use `ListNode` to write some basic Linked List methods.

PART 1 – Open the `ListFunHouse.java` file and complete the methods in this class.

PART 2 – Use `ListFunHouseRunner.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
ListFunHouseRunner.
java
```

Sample Data :

Located in the main method of `ListFunHouseRunner`

Sample Output :

Worksheet LL#2 Runner

Original list values

```
cheese pepperoni onions peppers bacon pineapple sausage garlic
```

```
num nodes = 8
```

List values after calling `nodeCount`

```
cheese pepperoni onions peppers bacon pineapple sausage garlic
```

List values after calling `doubleFirst`

```
cheese cheese pepperoni onions peppers bacon pineapple sausage garlic
```

List values after calling `doubleLast`

```
cheese cheese pepperoni onions peppers bacon pineapple sausage garlic garlic
```

List values after calling `removeXthNode(2)`

cheese pepperoni peppers pineapple garlic

List values after calling setXthNode(2,PIZZA!)

cheese PIZZA! peppers PIZZA! garlic