Linked Lists - Restaurant

*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.

Open the Restaurant.java file and complete the methods in this class.

Use RestaurantRunner.java to test your Restaurant class.

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

public class ListNode implements Linkable

**Files Needed :**

**ListNode.java**

**Linkable.java**

**Restaurant.java**

**RestaurantRunner.java**

{

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;

}

}

**Sample Data :**

Located in the main method of RestaurantRunner.java

**Sample Output :**

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