```
private MyNode firstNode;
private int numberOfEntries;
private MyNode getNodeAt(int position) {
   if (position >= 1 && position <= numberOfEntries) {</pre>
        MyNode currentNode = firstNode;
        for (int i = 1; i < position; i++)
            currentNode = currentNode.getNext();
        return currentNode;
    } else return null;
public ListChain() {
   firstNode = null;
    numberOfEntries = 0;
public void add(T newEntry) {
    MyNode newNode = new MyNode<T>(newEntry);
    if (numberOfEntries == 0) firstNode = newNode;
    else {
        MyNode lastNode = getNodeAt(numberOfEntries);
        lastNode.setNext(newNode);
    numberOfEntries++;
public T remove(int position) {
    T result = null;
   if (position >= 1 && position <= numberOfEntries) {</pre>
        if (position == 1) {
            result = (T) firstNode.getData();
            firstNode = firstNode.getNext();
        } else {
            MyNode nodeBefore = getNodeAt(position - 1);
            MyNode nodeToRemove = nodeBefore.getNext();
            MyNode nodeAfter = nodeToRemove.getNext();
            result = (T) nodeToRemove.getData();
            nodeBefore.setNext(nodeAfter);
        numberOfEntries--;
        return result;
    } else throw new IndexOutOfBoundsException("Remove position is out of bounds");
```

public class ListChain<T> implements ListInterface<T> {

```
public T replace(int position, T newEntry) {
    if (position >= 1 && position <= numberOfEntries) {</pre>
       MyNode currentNode = getNodeAt(position);
       T dataValue = (T) currentNode.getData();
        currentNode.setData(newEntry);
        return dataValue;
    } else throw new IndexOutOfBoundsException("Replace position is out of bounds");
public T getEntry(int position) {
    if (position >= 1 && position <= numberOfEntries) {</pre>
       MyNode currentNode = getNodeAt(position);
        return (T) currentNode.getData();
    } else throw new IndexOutOfBoundsException("Get entry position is out of bounds");
public int getLength() {
    return numberOfEntries;
public boolean isEmpty() {
    return (numberOfEntries == 0);
```