Linked List

Assignment 1

```
import java.util.HashSet;
import java.util.LinkedList;
import java.util.List;
import java.util.Set;

class Tester {

    public static List<Integer> removeDuplicates(List<Integer> list) {
        Set<Integer> uniqueSet = new HashSet<>();
        List<Integer> resultList = new LinkedList<>();

        for (Integer num : list) {
            if (uniqueSet.add(num)) { // If successfully added to set (i.e., it's unique)
                resultList.add(num);
            }
        }

        return resultList;
    }

    public static void main(String args[]) {
        List<Integer> list = new LinkedList<>();
        list.add(10);
        list.add(15);
        list.add(21);
```

```
        list.add(15);
        list.add(10);

        List<Integer> updatedList = removeDuplicates(list);

        System.out.println("Linked list without duplicates:");
        for (Integer value : updatedList) {
            System.out.print(value + " ");
        }
    }
}
```

Output-