```
Problem 1
Problem 2
Problem 3
Problem 4
public LinkedList<Set<Integer>> powerSet(LinkedList<Integer>
inputList){
     LinkedList<Set<Integer>> resultSet = new LinkedList<>();
     Set<Integer> emptySet = new HashSet<>();
     resultSet.add(emptySet);
     while(!inputList.isEmpty()){
           Integer f = inputList.removeFirst();
           int size = resultSet.size();
           //Set<Integer> currentSet;
           for(int i = 0; i < size; i++){</pre>
                Set<Integer> union = new HashSet<>();
                Set<Integer> currentSet = resultSet.get(i);
                union.add(f);
                union.addAll(currentSet);
                resultSet.add(union);
           }
     return resultSet;
}
```