[Recursion] Remove duplication from a Array List.

```
import java.util.ArrayList;
import java.util.LinkedList;
import java.util.List;
public class MainClass {
   public static void main(String[] args) {
       ArrayList<String> list = new ArrayList<>();
       list.add("1");
       list.add("2");
       list.add("4");
       list.add("3");
       list.add("1");
       ArrayList<String> result =
removeDuplications(list);
       System.out.println("result: " + result.toString());
   }
   static ArrayList<String>
removeDuplications(ArrayList<String> list) {
       if (list.size() <=1 ) {
          return list;
       ArrayList<String> result = new ArrayList<String>();
       String firstItem = list.remove(0);
       if (list.size() > 0) {
          result.addAll(removeDuplications(list));
       if (!result.contains(firstItem)) {
          result.add(firstItem);
       return result;
   }
}
public static ArrayList<String> removeDups (List<String>
input){
       ArrayList<String> result = new ArrayList<String>();
```

```
if(input.isEmpty()){
    return result;
}

String a = input.remove(0);
if(!input.contains(a)){
    result.add(a);
}
result.addAll(removeDups(input));

return result;
}
```