剑指offer第3题

```
package niuke;
import java.util.ArrayList;
import java.util.List;
* @author tfxidian E-mail: tfxidian@163.com
* @version 创建时间: 2018年10月8日 下午8:45:58
* 类说明
*/
public class ReverseArrayList {
        public static class ListNode {
           int val;
            ListNode next = null;
           ListNode(int val) {
               this.val = val;
            }
        public static void main(String[] args) {
            ListNode [] tempNode = new ListNode[5];
            for (int i = 0; i < 5; i++) {
                tempNode[i] = new ListNode(i);
            }
            for (int i = 0; i < 4; i++) {
                tempNode[i].next = tempNode[i+1];
            ListNode node = tempNode[0];
            while (node.next!=null) {
                node = node.next;
            List<Integer> aList = new ArrayList<Integer>();
            aList = printListFromTailToHead(tempNode[0]);
            System.out.println(aList);
        public static ArrayList<Integer> printListFromTailToHead(ListNode
listNode) {
```

```
ArrayList <Integer> arrayList = new ArrayList<Integer>();
ListNode node = listNode;
while (node!=null) {
    arrayList.add(node.val);
    node = node.next;
}

ArrayList<Integer> arr2List = new ArrayList<Integer>();
System.out.println(arrayList.size());
for(int i=arrayList.size()-1;i>=0;i--){
    arr2List.add(arrayList.get(i));
}
System.out.println(arrayList);
System.out.println(arrayList);
return arr2List;
}

}

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}
```