01)

Source Code:

List class:

```
import java.util.Arrays;
   public String toString() {
               ", ListEntry=" + Arrays.toString(ListEntry) +
   public int listSize() {
       if (isListFull()) {
   public void insertList(E value, int index){
      if (isListFull()) {
```

```
System.out.println("List is full\n");
    System.out.println("Out of list size. Enter a valid index.");
    for (int i = listSize(); i > index ; i--) {
if(isListEmpty()){
    System.out.println("List is empty");
return null;
if (isListEmpty()) {
   System.out.println("List is empty");
if(isListEmpty()){
    System.out.println("List is empty");
    System.out.println("Out of list size. Enter a valid index.");
```

StemLeaf class:

Output:

```
Enter the count of numbers: 9

Enter list of numbers: 21 87 56 33 15 45 64 72 29

Stem Leaf

1 5

2 1

2 9

3 3

4 5

5 6

6 4

7 2

8 7
```