

LINKED LISTS WORKSHEET #1

Basics in working with iterators and methods in the Linked List environment.

You are to complete a program that demonstrates that you understand how to use the Java LinkedList class. Be sure not to make the mistake of using an index as you traverse the Linked List !

//Complete the needed code for the class JavaLinkedList below.

```
import java.util.LinkedList;
import static java.lang.System.*;

public class JavaLinkedList{
    private LinkedList<Integer> list;

    public JavaLinkedList(){
        list = new LinkedList<Integer>();
    }

    public JavaLinkedList(int[] nums){
        list = new LinkedList<Integer>();
        for(int num : nums){
            list.add(num);
        }
    }

    public double getSum( ){
        double total=0;
        return total;
    }

    public double getAvg( ){
        return 0;
    }

    public int getLargest(){
        int largest=Integer.MIN_VALUE;
        return largest;
    }

    public int getSmallest(){
        int smallest = Integer.MAX_VALUE;
        return smallest;
    }

    public String toString(){
        String output="";
        return output;
    }
}
```

//Use the following class as your runner.

```
import java.util.LinkedList;
import static java.lang.System.*;

public class JavaLinkedListRunner
{
    public static void main ( String[] args )
    {
        JavaLinkedList test = new JavaLinkedList(new int[]{4,5,6,7,8,9,10,11,12,13});
        out.println(test);

        test = new JavaLinkedList(new int[]{24,75,86,37,82,94,111,82,43});
        out.println(test);

        test = new JavaLinkedList(new int[]{0,4,5,2,1,4,6});
        out.println(test);
    }
}
```

//Your code should output the following when using the runner above.

```
SUM:: 85.0
AVERAGE:: 8.5
SMALLEST:: 4
LARGEST:: 13

SUM:: 634.0
AVERAGE:: 70.44444444444444
SMALLEST:: 24
LARGEST:: 111

SUM:: 22.0
AVERAGE:: 3.142857142857143
```

SMALLEST:: 0
LARGEST:: 6