Problem Statement:
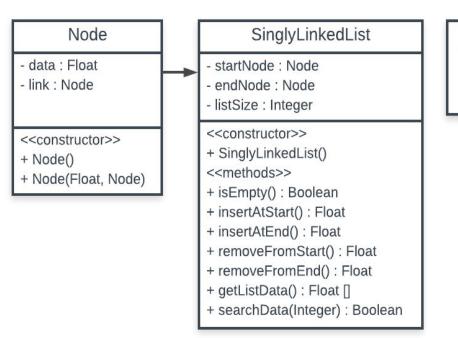
     A. Based on the given class diagram, write a Java Program to implement Linked List. Write Code for following operations.
         a. **Insertion at the start**
         b. **Insertion at the end**
         c. **Remove from the start**
         d. **Remove from the end**
         e. **Display the list data**
         f. **Search in the list**
         g. **Check for empty list**

     B. Write Junit Test cases for the above Java class.

```
+------------------------+       +------------------------------------+
|         Node           |       |         SinglyLinkedList           |
+------------------------+       +------------------------------------+
| - data : Float         |  -->  | - startNode : Node                 |
| - link : Node          |       | - endNode : Node                   |
+------------------------+       | - listSize : Integer               |
|                        |       +------------------------------------+
| <<constructor>>        |       | <<constructor>>                    |
| + Node()               |       | + SinglyLinkedList()               |
| + Node(Float, Node)    |       | <<methods>>                        |
+------------------------+       | + isEmpty() : Boolean              |
                                 | + insertAtStart() : Float          |
                                 | + insertAtEnd() : Float            |
                                 | + removeFromStart() : Float        |
                                 | + removeFromEnd() : Float          |
                                 | + getListData() : Float []         |
                                 | + searchData(Integer) : Boolean    |
                                 +------------------------------------+
```

All private attributes will have setter and getter methods
    + set<Attrbiute name>() : void
    + get<Attribute name>() : data type