Lab #10 –Linked list and Generic Programming

Exercise 1:
Organization has unknown number of employee this number may shrink to 0 and expand to infinity.

Implement the following Classes Illustrated in UML (you can use your Organization and Employee classes from previous labs).

1. Create a generic LinkedList class which implement a single linked list with a sort method which will sort the objects in the LinkedList. (Create a Comparable Class).
2. Use this LinkedList in Organization as employee Container.

In Class LinkedList (Hint: implement a node class):
Implement the following methods:
- Sort(Comparable) which will sort objects in the LinkedList according to the providing Comparable.
- insertLast() insert an object in the tail of the list
- insertFront() insert an object in the front of the list
- removeFirst() remove the first object in the list
- removeLast() remove the last object in the list
- get(index) return the object in index position.

Implement a main program which display and execute the following menu:
1) Add an Employee to the organization.
2) Remove an Employee.
3) Print Employee Information.
4) Sort employees in the organization according to their ID and print their information.
4) Sort employees in the organization according to their Salaries and print their information.
5) Exit