Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Consider the following code sorting an array of Comparables:

// Selection sort for an array of Comparable objects   
 public static void selectionSort(Comparable[] array)  
 {  
 int curPos;  
 int indexSmallest;  
 int start;  
 Comparable temp;  
   
 for (start = 0; start < array.length - 1; start++)  
 {  
 indexSmallest = start;  
 for (curPos = start + 1; curPos < array.length; curPos++)  
 {  
 if (array[indexSmallest].compareTo(array[curPos]) > 0)  
 {  
 indexSmallest = curPos;  
 }  
 } // end for  
   
 temp = array[start];  
 array[start] = array[indexSmallest];  
 array[indexSmallest] = temp;  
 } // end for   
 }

1. Write a non-static ‘sort()’ method that will sort a Linked List using Selection Sort.
2. Key-in your solution and run in debug and test for:

* Empty linked list
* List with only one node
* List with several nodes

Print your listing and submit on paper in class – see Canvas for due date.