Homework 08 # Sorting a list (7 marks)

(7 marks) You are given classes for Circular doubly linked list. Your task is to write method

`public void sort() throws Exception {` of class CDLinkedList

This method sorts numbers stored in 'this' list from small to large.
- You can use any sorting algorithm, but you must implement it on the linked list.
- Array is not allowed.
- You are not allowed to create any other data structures.
- You can only use 'this' as your only data structure.
- Submit your modified `CDLinkedList`.java (only this file) on MyCourseville.
- JUnit Test cases used when marking will be different from the JUnit you have, but they test the same logic. So make sure your program works for any possible inputs.

  Guide for revision:
  - Write your method several times, each time with different sorting algorithm.
  - Try to write bubble sort, selection sort, insertion sort in < 10 minutes.
  - Try to write merge sort, quick sort in < 15 minutes.
  - You only need to submit one that works, so submit the one that works first, then do further revision with other sorting algorithms.