GIT Department of Computer Engineering
CSE 222/505
Spring 2015
Homework 06

Heap Implementation
Due date: Apr 20th 2015 23:55

In this homework, you will implement the methods of Java PriorityQueue<E> listed at
http://docs.oracle.com/javase/7/docs/api/java/util/PriorityQueue.html

Part 1:
Write unit tests for the methods of Java PriorityQueue<E> listed at
http://docs.oracle.com/javase/7/docs/api/java/util/PriorityQueue.html
Write at least 4 tests for each method. You shoud write tests for the methods of the iterator class.

Part 2:
Design and implement a new PriorityQueue<E> class that includes the above methods. Your class
will use an inner Node<E> class and will impement all methods using node structure.

Your new class should pass all unit tests in Part 1 without any modification.
Write additional tests to show that your new class works as a heap.
Include all your design documents (EA drawings) in your submission.