- 1. public Decreaser; T; insert(T thing)
  - Parameters:

thing: this is an input for insert of type T. This input is what is being inserted into the heap.

• Return value:

A new Decreaser; T; with the input (thing).

- 2. void decrease(int loc)
  - Parameters:

loc: input for the decrease method that takes a type int. This parameter gives a current location for the decrease method to start at.

• Return value:

Does not have a return value.

- 3. public T extractMin()
  - Parameters:

No parameters

• Return value:

This method takes the minimum value in the heap.

- 4. private void heapify(int where)
  - Parameters:

where: is a parameter of type int. Specifies where to start testing the rules of a binary tree by checking to see if the parent is larger than the child.

• Return value:

no return value

- 5. Which instance variable in the MinHeap class holds the actual contents of the heap? The decreaser holds to actual contents of the heap in the MinHeap class.
- 6. Which method(s) will call heapify?

The extract Min method will call heapify to resort the tree once the min has been taken out.

7. Why is the decrease method not private to the MinHeap classes?

The MinHeap class is not private maybe because it would need to be used in other classes to help run the code.