CS 171 Assignment 5, Due on Oct.16th

- 1. Priority queue without explicit links. Implement a priority queue using array. And your implementation should support the following operations:
 - a) Insert(Insert), delete the maximum(deleteMax), and delete the minimum(deleteMin). All of them are in logarithmic time.
 - b) Find the maximum(findMax) and find the minimum(findMin). Both are in constant time.
 - c) The resizing resize should also be included.

(Hint: use two private priority queues; this is methodName.)

2. Priority queue with explicit links. Implement a priority queue using a heap-ordered binary tree, but use a triply linked structure instead of an array. You will need three links per node: two to traverse down the tree and one to traverse up the tree. Your implementation should guarantee logarithmic running time for operations insert and deleteMax, even if no maximum priority-queue size is known ahead of time. You may include other private helper methods in your program.