Lab 5 (March 29th)

In the heap.java program, the insert() method inserts a new node in the heap and ensures the heap condition is preserved. Write a toss() method that places a new node in the heap array without attempting to maintain the heap condition. (Perhaps each new item can simply be placed at the end of the array.) Then write a restoreHeap() method that restores the heap condition throughout the entire heap. Using toss() repeatedly followed by a single restoreHeap() is more efficient than using insert() repeatedly when a large amount of data must be inserted at one time. See the description of heapsort for clues. To test your program, insert a few items, toss in some more, and then restore the heap.