

**Homework Assignment #3**  
**Due: April 7, 4:00 p.m.**

1. Problem 17-2 on page 426 of the textbook.
2. Use an amortized analysis to prove that the total time to perform a sequence of  $n$  INSERTS into a binomial heap is  $O(n)$ .  
Hint: this is a lot like the amortized analysis of incrementing a binary counter.