Homework 4: assigned 11/12, due 11/18 at 9 am Pacific time

1. Exercise 14 on page 195
2. Exercise 18 on page 197
3. Exercise 5 on Page 248
4. Exercise 6 on page 248
5. Suppose you are given an array of sorted integers that has been circularly shifted k positions to the right. For example taking (1 3 4 5 7) and circularly shiting it 2 position to the right you get (5 7 1 3 4). Design an efficient algorithm for finding K (linear time is trivial)
6. Consider **d** sorted array of integers each containing n1, n2, .. nd numbers. The numbers ni's are arbitrary. The total number of all elements is **n** (sum of all ni's). Design an **O(n log d)** algorithm that merges all arrays into one sorted list. You may wish to use a data structure that we have discussed in class.