## Homework Set #5

- QuickSort: This problem uses array A = < 22, 98, 17, 6, 34 > from Problem 4 of HW#4.
  You will apply QuickSort to array A to sort it into non-decreasing order. Use the (nonrandomized) version of Partition given on p. 171 of the text.
  - (a) Illustrate the operation of **QuickSort** using Figure 7.1 on p. 172 as a model for the operation of **Partition**. (20 points)
  - (b) How many swaps are performed by QuickSort to sort the array A? How does this compare with the number of swaps used by HeapSort for this same array in Problem 4 of HW#4? (20 points)