Activity Sheet 8

Manager name:

Recorder name:
Speaker name:
Section 5.1
1. Consider the problem of finding the location of the largest element in an unsorted array (if many elements achieve that largest value, return the first of them).
a. Write a brute-force algorithm for this problem, and determine its time complexity.
b. Write a required decrease by one and conquer election for this problem
b. Write a recursive decrease-by-one-and-conquer algorithm for this problem, and determine its time complexity via a recurrence relation (and optionally using the master theorem, or solving directly).

c. Write a divide-and-conquer algorithm for this problem, and determine its time complexity via a recurrence relation and using the master theorem.