## Assignment 4

For the quicksort algorithm, we chose to make the pivot the last element in the array and pivot based on that. You then break the array into two parts on either side of the partition and use the last element of those arrays for the pivot of those arrays and so on until the subarrays are sorted, (are of length one). Like merge-sort, quicksort splits the array to be sorted into subarrays and is therefore a recursive algorithm. The way that quicksort uses subarrays differs however from the way merge sort uses them. For merge sort, the combine step is where most of the comparisons and sorting takes place however in quicksort most of the comparisons come from the divide step.