



Table 1: Table for Question 4

Algorithm	Average-case $\Theta$ -time	Worst-case $\Theta$ -time	Extra storage requirements	stable ( yes / no )
insertion sort				
Shell sort				
merge sort (for arrays)				
quick sort				
heap sort				

Justifications:

Would you feel confident that your algorithm can sort 1000000 items in 2 minutes? Why or why not?

4. Fill in the table on page 2. Justify entries that you feel need justifying.
5. Write down a list of things to check when examining the coding of someone else's quick sort.