

ELE3034: Design and Analysis of Algorithms

Team Homework #3.

1. Empirical studies show generally quick sort is faster than heapsort. After implementing the two sorting algorithms, try to compare them by counting the number of comparisons and exchanges for the varying size of the input. You can randomize the initial data set. For example, fill up the blank cells throughout the experiments.

n	Quick		Heap	
	Comparison	Exchange	Comparison	Exchange
100				
200				
500				
1,000				
2,000				
3,000				
4,000				
5,000				

2. Show me the wall-clock execution times as well.

3, The due date is Dec. 5th (Wed). In class submission is required.