Quiz 3
Tuesday July 17
CSc 345 – Summer 2012
Qiyam Tung

Name_____

Instructions

1. This is an individual assignment. You must do your own work.

2. Show all work. Incomplete solutions will **not** receive full credit

Problem 1 (6 Points)

What is the best case for Insertion Sort? And the worst case? Please give an example (a list with at least 5 integers) for each case.

Problem 2 (6 Points)

List the upper-bounds (in terms of those comparisons and swaps) of best, worst and average case for Bubble Sort.

Problem 3 (4 Points)

Given a list of integers arranged from highest to lowest as input, which sorting algorithm is faster? Insertion Sort or Selection Sort? Briefly explain your answer.

Problem 4 (4 Points)

Why does Shell Sort use insertion sort to sort its sublists?