COMPSCI 130 - Introduction to Software Fundamentals
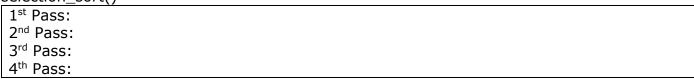Lab Activity Worksheet:
Lab06: Sorting

Family Name:_____First Name: _____UPI:_____ Lab Time: _____
   1. discuss the group work questions with your group members
   2. complete the activity worksheet
Form groups of size 3 or 4. Introduce yourself to the other members of your group, and record the group members below:

Task One:
To understand how a Bubble Sort works, let's use it on a few random playing cards to get them in order.

Next, performs a selection Sort with the given playing cards. Finally, performs an insertion Sort with the given playing cards.

Task Two: a) Starting with the following unsorted list:

   [37, 43, 22, 59, 62, 68, 78, 81, 83, 91]

Show the elements after each pass when the above list is passed as a parameter to the bubble_sort()

1st Pass: 2nd Pass: 8th Pass: 9th Pass:

Can we simplify those steps?

b) Starting with the following unsorted list:

   ['m', 'w', 'd', 'k', 'g', 'r']

Show the elements after each pass when the above list is passed as a parameter to the bubble_sort()

1st Pass: 2nd Pass: 3rd Pass: 4th Pass: 5th Pass:

Task Three: a) Starting with the following unsorted list:

[37, 43, 22, 59, 62]

Show the elements after each pass when the above list is passed as a parameter to the selection_sort()

1st Pass:
2nd Pass:
3rd Pass:
4th Pass:

b) Starting with the following unsorted list:

['m', 'w', 'd', 'k', 'g', 'r']

Show the elements after each pass when the above list is passed as a parameter to the selection_sort()

1st Pass:
2nd Pass:
3rd Pass:
4th Pass:
5th Pass:

Task Four: a) Starting with the following unsorted list:

[25, 36, 23, 37, 54]

Show the elements after each pass when the above list is passed as a parameter to the insertion_sort ()

1st Pass:
2nd Pass:
3rd Pass:
4th Pass:

b) Starting with the following unsorted list:

['m', 'w', 'd', 'k', 'g', 'r']

Show the elements after each pass when the above list is passed as a parameter to the insertion_sort ()

1st Pass:
2nd Pass:
3rd Pass:
4th Pass:
5th Pass: