

30 minutes Spring_2018_INFO6205_Se...

Question - 1 Stable Sort		SCORE: 5 points
date and t	an employee database where people are added based on hire then sorted based on last name. If two people in the employee have the same last name, which sorting method(s) will not eir order relative to each other? (Hint: this concept is known as	
	Selection sort	
•	Insertion sort	
	Shell sort	
	All of the above	
Question Question		SCORE: 5 points
How many	y inversions does the sequence E F J K Y T O R Z W contain?	
	5	
	6	
•	7	
	8	
Question - 3 Selection Sort		SCORE: 5 points
Given an selection	array in reverse order [6, 5, 4, 3, 2, 1], what are the steps in sort?	
•	154326,124356,123456	
	3 5 4 6 2 1, 3 2 4 6 5 1, 3 2 1 6 5 4, 1 2 3 4 5 6	
	5 6 4 3 2 1, 4 5 6 3 2 1, 3 4 5 6 2 1, 2 3 4 5 6 1, 1 2 3 4 5 6	
	6 5 4 3 1 2, 6 5 4 1 2 3, 6 5 1 2 3 4, 6 1 2 3 4 5, 1 2 3 4 5 6	
Question - 4 Sort Time		SCORE: 5 points

Given an array in sorted order, which sort runs faster?

Spring_2018_INFO6205_Sec03_Quiz_5 Pr Selection sort	rogramming problems and challenges HackerRank		
Insertion sort			
They run the same			
Question - 5 old	SCORE: 30 points		
Your task is to implement a student ranking system using insertion sort. Your sort() method should sort students from highest to lowest GPA. You must also implement the higher() method used to compare the students'			

Both methods to be implemented are in the StudentRank class. There is also a Student class that you should not modify.

GPAs.