

Question - 1 Ficket Number	SCORE: 0 points
Please enter your ticket number below:	
Question - 2 Java Collection	SCORE: 5 points
What is a Collection in Java?	
A group of objects	
A group of classes	
A group of interfaces	
None of the above	
Question - 3 Performance	SCORE: 5 points
You have a problem whose execution time is a polynomial function of N,	
the number of elements in the problem. That's to say: t = cN ^k Which of the following techniques might you consider to reduce the execution time (check all that apply)?	
the number of elements in the problem. That's to say: t = cN ^k Which of the following techniques might you consider to reduce the	
The number of elements in the problem. That's to say: t = cN ^k Which of the following techniques might you consider to reduce the execution time (check all that apply)?	
the number of elements in the problem. That's to say: t = cN ^k Which of the following techniques might you consider to reduce the execution time (check all that apply)? I lessen the coefficient c (e.g. by running on a faster computer); Effectively reduce the size of N by dividing the problem into smaller, independent subproblems (provided that the cost of recombining the solutions doesn't outweigh the	
the number of elements in the problem. That's to say: t = cN ^k Which of the following techniques might you consider to reduce the execution time (check all that apply)? I lessen the coefficient c (e.g. by running on a faster computer); Effectively reduce the size of N by dividing the problem into smaller, independent subproblems (provided that the cost of recombining the solutions doesn't outweigh the penefit).	SCORE: 5 points
the number of elements in the problem. That's to say: t = cN ^k Which of the following techniques might you consider to reduce the execution time (check all that apply)? It is to say: t = cN ^k Which of the following techniques might you consider to reduce the execution time (check all that apply)? It is to say: t = cN ^k Which of the following techniques might you consider to reduce the execution time (check all that apply)? It is to say: t = cN ^k Which of the following techniques might you consider to reduce the execution time (check all that apply)? It is to say: t = cN ^k Which of the following techniques might you consider to reduce the execution time (check all that apply)? It is to say: t = cN ^k Secution time (check all that apply)? It is to say: t = cN ^k Secution time (check all that apply)?	
the number of elements in the problem. That's to say: t = cN ^k Which of the following techniques might you consider to reduce the execution time (check all that apply)? I lessen the coefficient c (e.g. by running on a faster computer); Effectively reduce the size of N by dividing the problem into smaller, independent subproblems (provided that the cost of recombining the solutions doesn't outweigh the benefit). Specifying a different value of the exponent k. Question - 4 Hashcodes and Equality	



If x.equals(y), x.compareTo(y) must be equal to 0

Question - 5 Sort by Grade and Id

All of the above

SCORE: 35 points

In this question, it reads in a list of Students (Id and Grade) and maintains an ordered list of Student (where Grade is more significant than Id).

As each word "S" is added to the list, we search until we find a word "T" that is greater than "S". Then we insert "S" just before "T". You need to write the **compareTo** function for Student and position(this will return the correct position of new node to insert)

.....

Example1: (Id, Grade)
Input 1 - "2009101" "C"
Input 2 - "200899" "B"

Output - "200899" "B", "2009101" "C"

As B < C

Example2: (Id, Grade)
Input 1 - "200899" "B"
Input 2 - "200890" "B"

Output - "200890" "B", "200899" "B"Grades are equal but id 200890 < 200899