## **Ankara University Computer Engineering Department COM267 HW 2**

Due Date: 20.10.2017 23:59

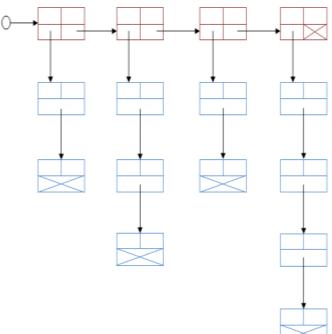
A lecturer teaches 4 different classes of Data Structures. The number of students in these classes may be different. Using the node structures given below, perform the given assignment. Be careful to leave student list as sorted when performing the insert operation. Sort will be performed in decreasing order based on the midterm scores. After the insert operation is complete, students with the lowest midterm will be deleted from the list until the class numbers are equalized. After this process, the midterm average of each class will be calculated and written to classMidtermAverage in the class list. Then the id of each class and the midterm average will be printed on the screen. Write a print method that prints all the structure on the screen to show that the lists are created correctly void printAll(nodeClass \*head). Write another print method that prints the desired class list - void printClassList(nodeClass \*head, int classId). Students who begin with StudentID 66 are in class 1, students starting with 77 in class 2, students starting with 88 are in class 3, and students starting with 99 are in class 4.

## Example Input (studentId midterm) Example Output (classId classMidtermAverage) 99215 75 1 47.5 66123 45 2 72.5 66127 50 3 67.5 99321 90 85.0 88234 90 88313 45 will (Note: You also call 77245 65 printClassList functions to display all the 77248 structure and a specified class list respectively.) 70 99218 70 99219 80 77445 75 struct nodeClass { int classID; double classMidtermAverage; struct nodeClass \*next; struct nodeStudent \*studentPtr; *};* struct nodeStudent { int studentID;

int midterm;

*};* 

struct nodeStudent \*next;



printAll

and