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)**. 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**)

Example Input		Example Output	
99215	75	**1 47.5**	
66123	45	66127	50
66127	50	66123	45
99321	90	**2 72.5**	
88234	90	77445	75
88313	45	77248	70
77245	65	77245	65
77248	70	**3 67.5**	
99218	70	88234	90
99219	80	88313	45
77445	75	**4 85.0**	
-1		99321	90
		99219	80
(Note: You will call printAll function to display all the structure.)		99215	75
		99218	70

struct nodeClass
{
      int classID;
      double classMidtermAverage;
      *struct nodeClass *next;*
      *struct nodeStudent *studentPtr;*
};

struct nodeStudent
{
      int studentID;
      int midterm;
      *struct nodeStudent *next;*
};