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. If the grades are the same, the student with smaller studentID must appear before in the list. After the insert operation is complete, the midterm average of each class will be calculated. The computed midterm average will be 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)				
99215	75			
66123	45			
66127	50			
99321	90			
88234	90			
88313	45			
77245	65			
77248	70			
99218	70			
99219	80			
77445	75			
-1				

Example O	utput (classId	classMidtermAverage)
1 47.5	0	
66127	50	
66123	45 2	
70.00		
77445	75	
77248	70	
77245	65 3	
67.50		
88234	90	
88313	45 4	
78.75		
99321	90	
99219	80	
99215	75	
99218	70	

```
struct nodeClass //Red nodes in the list
{
     int classID;
     double classMidtermAverage;
     struct nodeClass *next; struct
nodeStudent *studentPtr;
};

struct nodeStudent //Blue nodes in the list
{
     int studentID; int midterm; struct
nodeStudent *next;
};
```

