Problem1. You have to use linked list for the following problem. You cannot use array. You have to create a student class with the following attributes and functions: [20]

**Student:**

int id (public), String name (public), double physics\_marks (public), double chemistry\_marks (public), double math\_marks

Student () {Default constructor}

Student (int id, String name, double physics\_marks, double chemistry\_marks, double math\_marks) {Assign the variables ;}

Now, you have to input from a file named info.txt. In the first line of the file, there will be the total number of students n. After that, there will be n more lines, each line containing a student’s id, name, physics \_marks and chemistry\_marks. You have to print each student’s information sorted by average marks.

Sample Info.txt file:

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34 rahim 100 30 200

44 karim 100 100 400

12 azim 100 100 100

Output:

StudentName: karim ID: 44 Physics\_marks: 100 Chemistry\_marks:100 Math\_marks:400 avg\_marks:200

StudentName: rahim ID: 34 Physics\_marks: 100 Chemistry\_marks:30 Math\_marks:200 avg\_marks:110

StudentName: azim ID: 12 Physics\_marks: 100 Chemistry\_marks:100 math\_marks: 100 avg\_marks:100

Marks Distribution:

File Handling: 5

Linked List Handling: 5

Sorting: 5

Class implementation and output: 5