**North South University  
CSE 225L: Data Structure Lab**

Suppose, you are asked to make a system where you can put some information of the students of CSE225. You have to take inputs according to the input table

**Input Table:**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  | | --- | --- | | Number of students in CSE225?  Number of Exams? | 5  5 | | |  |  | | --- | --- | | Student ID:  Student Name:  Student CGPA:  Number of Exams attended :   |  | | --- | | Exam 1:  Exam 2:  Exam 3:  Exam 4:  Exam 5: | | | Student ID:  Student Name:  Student CGPA:  Number of Exams attended :   |  | | --- | | Exam 1:  Exam 2:  Exam 3:  Exam 4: | | | Student ID:  Student Name:  Student CGPA:  Number of Exams attended :   |  | | --- | | Exam 1:  Exam 2:  Exam 3: | | | Student ID:  Student Name:  Student CGPA:  Number of Exams attended :   |  | | --- | | Exam 1:  Exam 2:  Exam 3:  Exam 4: | | | Student ID:  Student Name:  Student CGPA:  Number of Exams attended :   |  | | --- | | Exam 1:  Exam 2:  Exam 3: | | | |  |  | | --- | --- | | 141  Tanvir  3.3  5   |  | | --- | | 80  90  85  80  90 | | | 123  Enan  2.75  4   |  | | --- | | 80  70  85  75 | | | 142  Junayet  2.5  3   |  | | --- | | 75  80  70 | | | 131  Akash  2.72  4   |  | | --- | | 80  70  65  75 | | | 132  Shovon  2.7  3   |  | | --- | | 75  75  75 | | | |

**Show the output according to the output table.**

**Output Table:**

|  |
| --- |
| **ID: 123 ; Name: Enan ; CGPA: 2.75 ; Exams: 80, 70, 85, 75 ; Average Mark: 80**  **ID: 131 ; Name: Akash ; CGPA: 2.72 ; Exams: 80, 70, 65, 75 ; Average Mark: 75**  **ID: 132 ; Name: Shovon ; CGPA: 2.7 ; Exams: 75, 75 , 75 ; Average Mark: 75**  **ID: 141 ; Name: Tanvir ; CGPA: 3.3 ; Exams: 80, 90, 85, 80, 90 ; Average Mark: 88.33**  **ID: 142 ; Name: Junayet ; CGPA: 2.5 ; Exams: 75, 80, 70 ; Average Mark: 75** |

**Note:** **The Student list will be printed in ascending order based on student ID.**

Average Mark: You have to exclude 2 lowest exam marks. (From the number of exams were taken)

For example, you have to take 5 best exam marks if the number of exams is 7. And then you have to take the average. In our example, the number of exams was 5. That’s why the average number was based on 3 best exam marks.

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| Hint: Similar example for student class header file |
| class Student  {  private:  int id;  string name;  float cgpa;  unsortedType<int> marks ;  public:  Student();  Student(int , string, float, unsortedType<int>);  }; |