Homework 9

Description:

1. There is a class of 3n students (n>0), and the teacher divides the class into n groups according to their seat numbers.
2. The class will be seated according to the table below in an n\*3 array and according to the groups.

|  |  |  |
| --- | --- | --- |
| 1st person of Group 1 (Leader) | 2nd person of Group 1 | 3rd person of Group 1 |
| 1st person of Group 2 (Leader) | 2nd person of Group 2 | 3rd person of Group 2 |
| ............... | | |
| 1st person of Group n (Leader) | 2nd person of Group n | 3rd person of Group 3 |

1. The first person in each group is the group leader, and they will get extra 10 points at the end of the semester
2. There are two exams during the semester, each accounting for 50% of the total grade.
3. Total grade is still 100 if the grade is over 100.
4. Anyone with a grade below 60 will fail.

Please design a program that allows:

1. The TA to input 3n scores (integer) for the first exam, and the TA will enter -1 to indicate completion,
2. The TA input another 3n scores  (integer) for the second exam, and finally input -1 again to indicate the end of all entries.
3. In the program, please output the results of the whole class for both exams according to the classroom seating (integer), and then output the total results then Round to the second decimal place, including the group leader's extra point, and please help the teaching assistant to change the failing grade to -1 directly).

|  |  |
| --- | --- |
| **Input** | **Output** |
| 65 70 85 90 100 70 70 50 20 -1 80 90 60 30 95 60 75 20 80 -1 | [[ 65 70 85]  [ 90 100 70]  [ 70 50 20]]  [[80 90 60]  [30 95 60]  [75 20 80]]  [[82.5 80. 72.5]  [70. 97.5 65. ]  [82.5 -1. -1. ]] |