✏️ Practice Arena

Practice problems aimed to improve your coding skills.

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Fiery FIFA Fever

LAB-PRAC-03_TYPES

Fiery FIFA Fever [10 marks]

Problem Statement
A Round Robin tournament is one in which a contestant meets all other contestants in turn. If each contestant plays all other contestants twice, then this is called double round robin tournament. Football leagues around the world follow the double round robin format, in which teams play all other teams twice, once at their own stadium, designated as 'Home' match and once at their opponent's stadium, called 'Away' match.

You will be given the goal data of two of the teams in this double round robin tournament in the format described below.
TeamID1 a1 - b1, c1 - d1
TeamID2 a2 - b2, c2 - d2
where TeamID1 is the integer ID for team1. a1 and c1 represent goals scored by team1 in its two matches, and b1, d1 represent goals scored against team1 in those two matches. Similarly for team2 with ID TeamID2.

A points table is a table which shows the points scored by all the teams in the tournament. You have to output this table for the two teams for whom you have been given data. In the following, GF stands for Goals For, GA stands for Goals Against, and GD stands for Goal Difference. Your table will have four columns, and three rows:

   1. The first row will contain the text headings ID, GF, GA, and GD.
   2. The second row with contain the text ID of team1, followed by the total goals scored by team1, followed by total goals scored against team1, followed by the goal difference.
   3. The third row with the same details, but for team2.
   4. You have to ensure that the first characters in each of the columns should be aligned vertically with the corresponding column heading. Use the tab character (with escape sequence '\t') between ID and GF, GF and GA and GD columns to achieve this.

Caution

   1. Be careful about extra/missing lines and extra/missing spaces.
   2. Press Evaluate/Submit once without writing any code to see how the output is expected.
   3. Use the tab character instead of space between two entries of two side-by-side columns.

INPUT:
ID_1 a - b, c - d
ID_2 w - x, y - z

OUTPUT:
ID   GF   GA   GD
ID_1   (a + c) (b + d) (gd1)
ID_2   (w + y) (x + z) (gd2)

EXAMPLE:
INPUT
7 1 - 1, 0 - 0
5 0 - 0, 2 - 1

OUTPUT:
ID GF GA GD
7 1   1   0
5 2   1   1

Grading Scheme:
Total marks: **[10 Points]**

There will be no partial grading in this question. An exact match will receive full marks whereas an incomplete match will receive 0 marks. Please be careful of missing/extra spaces and missing/lines (take help of visible test cases). Each visible test case is worth 1 point and each hidden test case is worth 2 points. There are 2 visible and 4 hidden test cases.

🍴 Start Solving! (/editor/practice/6021)