CodeVita
The TCS Global Coding Contest

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05 Hr 58 Min 32 Sec

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Coding Area

A B C D E F

ONLINE EDITOR (D)

Sorted Rank List

Problem Description

A competition is carried out in different zones across the world. Each zone has a list ordered as per rank. Once all the zones have concluded a global rank needs to be released. Your task is to merge the zonal ranks to compute global ranks. The only constraint is that global rank of a person can't be higher than someone who is ranked higher in his/her own zone. Across zones, ranks will be computed on basis of one of the obtained scores.

You have been given N Sorted lists of students ordered rank wise. Lists are of equal size i.e. M

You have to combine the lists and find the global ranks according to the scores. Keeping constraints in mind let's look at an example.

Let's say there are two zonal rounds. Each has two winners.

Zone 1 Data

Their data tuples in rank ordered form are as follows :

<A, 50.0>

<B, 45.0>

Where, A is the student name and 50 is his score.

Similarly, B is the student name and 45 is his score.

Since A appears before B, A is ranked higher than B.

Zone 2 Data

Their data tuples in rank ordered form are as follows :

<C, 49.0>

<D, 75.0>

Where, C is the student name and 49 is her score.

Similarly, D is the student name and 75 is her score.

Since C is appears before D, C is ranked higher than D.

Now the combined global rank will be:

A 50.0

C 49.0

D 75.0

B 45.0

Note:- It is not necessary that within a zone the a top ranker will always have a higher obtained score than a lower ranked student.

Constraints

1 <= N <= 5

1 <= M <= 50

1<= obtained score <= 1000.0000000

Fractional part of obtained score will vary between one digit upto seven digits after the decimal point.

Input Format

First line : N – number of list

Second line : M – size of each list

Followed by N*M lines that contains Name of student and their corresponding obtained score delimited by white space.

First m lines contains list of student belonging to first zone

Similarly, next chunk of m lines contains list of student belong to other zones

Output

N*M lines in order of their global ranks in the following format:

<Name Score> with one such tuple printed per line and Name and Score should be delimited by space.

Explanation

Example 1

Input

2

2

Wakawashi 400.0

Fuma 350.0

Kamui 160.0

Tsubasa 450.0

Output

Wakawashi 400.0

Fuma 350.0

Kamui 160.0

Tsubasa 450.0

Example 2

Input

2

3

Nakagawa 292.9022209

Akimoto 159.0739037

Totsuka 119.4865502

Ryotsu 305.976141

Honda 284.1628581

Ohara 93.7605350

Output

Ryotsu 305.976141

Nakagawa 292.9022209

Honda 284.1628581

Akimoto 159.0739037

Totsuka 119.4865502

Ohara 93.760535

Upload Solution [Question : D]

☐ I, **shivansh kumar** confirm that the answer submitted is my own.

☐ Took help from online sources (attributions)

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