Dream Team   X26443_en

A basketball coach needs a program to decide which are the best five players in his team. For that, we have a history of matches. For every match we have the 5 players who played it, and the score of the match.

The coach wants to find out which is the best team, that is, the one that that won more games. If there is a tie, the group with the higher total point difference (points scored minus points against), if the tie persists, the group with more points scored. Assume there will be no ties beyond that.

Input

The input is a sequence of match results. Each match consists of 5 player names followed by two integers: first points scored by the team, second points scored by the opponent.

Output

The output is the list of the teams that played some match, sorted from best to worst. Best team is that winning a larger number of games. In case of a tie, the one with a larger difference between points scored minus points lost. If the tie persists, the group with more points scored.

For each team in the output list, the program must print the names of the players in alphabetical order, followed by the number of won matches over the number of played matches, then the total number of points scored, and the total number of points against. Check the format of the examples.

Sample input 1

```
john peter sonny jack roger 78 66
peter jack marvin harry sonny 45 99
marvin sonny roger peter jack 87 79
peter jack john sonny roger 55 72
gary frank roger john peter 77 76
james  jack marvin john sonny  88 19
john peter sonny jack roger 92 81
gary frank roger john peter 109 106
```

Sample output 1

```
jack john peter roger sonny 2/3 225 219
frank gary john peter roger 2/2 186 182
jack james john marvin sonny 1/1 88 19
jack marvin peter roger sonny 1/1 87 79
harry jack marvin peter sonny 0/1 45 99
```

Sample input 2

```
john peter sonny jack roger 78 66
marvin sonny roger peter jack 87 89
roger peter frank john gary 91 42
peter jack john sonny roger 55 72
gary frank roger john peter 77 76
james  jack marvin john sonny  88 19
john peter sonny jack roger 92 81
gary frank roger john peter 109 106
frank roger peter john gary 71 92
```

Sample output 2

```
frank gary john peter roger 3/4 348 316
jack john peter roger sonny 2/3 225 219
jack james john marvin sonny 1/1 88 19
jack marvin peter roger sonny 0/1 87 89
```

Problem information

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