**Vladko's Notebook**

Vladko Karamfilov (a.k.a. SUPER VLADO or St.Karamfilov) is a very famous table tennis player. He is also very organized. In order to become the best tennis player there is, he writes down everything about his opponents in a pretty notebook, covered in pink flowers. He is winning all his games so he had a lot of hostile opponents. One night one of them crawled into Vladko's room and tore his notebook apart into separate sheets of paper. Vladko needs your help to gather his information from all the sheets. Fortunately Vladko writes everything about one opponent only on a sheet from the notebook with certain color (for example all information on red sheets is about opponent X, all information on blue sheets is about opponent Y etc.). You are given a list of colored sheets given as text table with the following columns:

Option 01 – [color of the sheet]|[win/loss]|[opponent name]

Option 02 – [color of the sheet]|[name]|[player name]

Option 03 – [color of the sheet]|[age]|[player age]

The different columns will always be separated only by 'I' (there won't be any whitespaces). The rank of each player is calculated by the formula rank = (wins+1) / (losses+1). If a certain color sheet has no information about the name or the age of the player, you should not print it in the output. If there is no information about opponents, you must print '[]'. There might be many opponents with the same names. You will know that they are different ones by the color of the sheets. Write a JavaScript function to aggregate the results and print them as JSON string as shown in the example below.

**Input**

The input is passed to the first JavaScript function found in your code as array of strings holding the table lines. The input data will always be valid and in the format described. There is no need to check it explicitly.

**Output**

Print at the console a JSON string that holds the age, the name, an array with the opponents (in alphabetical order) and rank of the player. Please follow exactly the JSON format from the example below. The rank of the players should be rounded to 2 digits after the decimal point:

1.5 -> 1.50; 1 -> 1.00; 1.3214123 -> 1.32

**Constraints**

The numbers of input lines is between 1 and 150.

The names of colors and players consist of Latin letters and spaces. Their length is between 1 and 50 characters.

The value of age will be integer in the range [0…50].

Allowed working time: 0.2 seconds. Allowed memory: 16 MB.

**Examples**

|  |  |
| --- | --- |
| Input | Output |
| purple|age|99  red|age|44  blue|win|pesho  blue|win|mariya  purple|loss|Kiko  purple|loss|Kiko  purple|loss|Kiko  purple|loss|Yana  purple|loss|Yana  purple|loss|Manov  purple|loss|Manov  red|name|gosho  blue|win|Vladko  purple|loss|Yana  purple|name|VladoKaramfilov  blue|age|21  blue|loss|Pesho | {"purple":{"age":"99","name":"VladoKaramfilov","opponents":["Kiko","Kiko","Kiko","Manov","Manov","Yana","Yana","Yana"],"rank":"0.11"},"red":{"age":"44","name":"gosho","opponents":[],"rank":"1.00"}} |