# Problem 4 – Rolland Garros

### You are given a sequence of tennis results in format "player1 vs. player2 : result". The result will be a series of sets in format "x-y", separated by whitespaces, where x is the number of games won by player1 and y is the number of games won by player2. There will be no whitespaces within the set result. A match will have between 2 and 5 sets and will always have a winner – the player with more sets won. Each set will also have a winner – the player who has won more games in the set.

### Example: "Novak Djokovic vs. Roger Federer : 6-7 6-2 5-7 6-3 6-2". Novak Djokovic (player1) won by 3 sets to 2. Do not check whether the results are valid tennis scores (4-3 is valid in the context of this problem).

### Your task is to write a JavaScript function that prints at the console a JSON string that holds the players, and for each player name, matchesWon, matchesLost, setsWon, setsLost, gamesWon, gamesLost.

### Input

### The input data is passed to the first JavaScript function found in your code as an array of strings. Each input line holds a match description in format "player1 vs. player2 : result". 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 players, and for each player name, matchesWon, matchesLost, setsWon, setsLost, gamesWon, gamesLost. The player names will consist of two words; if there is more than one space between a player’s first and last name you should replace it with a single space. The players should be sorted by several criteria:

### matchesWon in descending order: the players with the most matches won will be first.

### setsWon in descending order *(if there are several players with the same win-loss ratio)* – if two players have the same amount of matches won you should sort them by setsWon.

### gamesWon in descending order (*if there are several players with the same win-loss and set ratio*) – if two players have the same amount of sets won you should sort them by gamesWon.

### Their names sorted alphabetically in ascending order in case several players have the same gamesWon, setsWon and gamesWon. (Hint: Use *string*.localeCompare(*string*) function to compare the names.)

### Please follow exactly the JSON format from the example.

### Constraints

* The number of input lines will be between 1 and 1000.
* The values player1 and player2 will consist of Latin letters and spaces. Their length is between 3 and 50 characters. Leading and trailing whitespaces should be removed. All whitespaces between a player’s first and last name should be replaced with a single space.
* The number of games won by each player in a set will be in the range [0 … 7].
* Whitespace may be found or missing around the separators "vs." and ":".
* Allowed working time for your program: 0.2 seconds. Allowed memory: 16 MB.

|  |
| --- |
| **Input** |
| Novak Djokovic vs. Roger Federer : 6-3 6-3  Roger Federer vs. Novak Djokovic : 6-2 6-3  Rafael Nadal vs. Andy Murray : 4-6 6-2 5-7  Andy Murray vs. David Ferrer : 6-4 7-6  Tomas Bedrych vs. Kei Nishikori : 4-6 6-4 6-3 4-6 5-7  Grigor Dimitrov vs. Milos Raonic : 6-3 4-6 7-6 6-2  Pete Sampras vs. Andre Agassi : 2-1  Boris Beckervs.Andre Agassi:2-1 |
| **Output** |
| [{"name":"Andy Murray","matchesWon":2,"matchesLost":0,"setsWon":4,"setsLost":1,"gamesWon":28,"gamesLost":25},{"name":"Kei Nishikori","matchesWon":1,"matchesLost":0,"setsWon":3,"setsLost":2,"gamesWon":26,"gamesLost":25},{"name":"Grigor Dimitrov","matchesWon":1,"matchesLost":0,"setsWon":3,"setsLost":1,"gamesWon":23,"gamesLost":17},{"name":"Roger Federer","matchesWon":1,"matchesLost":1,"setsWon":2,"setsLost":2,"gamesWon":18,"gamesLost":17},{"name":"Novak Djokovic","matchesWon":1,"matchesLost":1,"setsWon":2,"setsLost":2,"gamesWon":17,"gamesLost":18},{"name":"Boris Becker","matchesWon":1,"matchesLost":0,"setsWon":1,"setsLost":0,"gamesWon":2,"gamesLost":1},{"name":"Pete Sampras","matchesWon":1,"matchesLost":0,"setsWon":1,"setsLost":0,"gamesWon":2,"gamesLost":1},{"name":"Tomas Bedrych","matchesWon":0,"matchesLost":1,"setsWon":2,"setsLost":3,"gamesWon":25,"gamesLost":26},{"name":"Milos Raonic","matchesWon":0,"matchesLost":1,"setsWon":1,"setsLost":3,"gamesWon":17,"gamesLost":23},{"name":"Rafael Nadal","matchesWon":0,"matchesLost":1,"setsWon":1,"setsLost":2,"gamesWon":15,"gamesLost":15},{"name":"David Ferrer","matchesWon":0,"matchesLost":1,"setsWon":0,"setsLost":2,"gamesWon":10,"gamesLost":13},{"name":"Andre Agassi","matchesWon":0,"matchesLost":2,"setsWon":0,"setsLost":2,"gamesWon":2,"gamesLost":4}] |