

# Sort the Events

75 points

79 minute(s)

Implementation Strings Medium Theme: E-commerce

Two software development teams had a meeting and a record of events was created. There are 4 possible events, gather requirements (G), merge requirements (Y), redesign (R), and solve (S).

- The first three events (G, Y, R) are represented as **employee-name time event-name**
- The last event (S) is represented as **employee-name time event-name second-employee-name**.
- The time is represented in minutes from the start of the meeting.
- The meeting is divided into two halves of 45 minutes each.
- There can be two representations of time:
  - regular time is represented as a single integer, **time**, for example 45
  - additional time is represented as **time+extra-time** for example 45+2

**Note:** The extra time is always considered to have occurred before the events of the next half, so, 45+2 happened earlier than 46.

Merge the events for each development team into a single meeting event with the team's name in front, sorted by time and event in the order G, Y, R, S. In the case of the same event happening at the same time, output should be sorted alphabetically based on the team's name and then the employees's name.

## Example

The first team name, *team1* = "edc" with events recorded as:

```
events1 = ['alex 12 G',  
          'sam 43 Y']
```

The second team name, *team2* = "cde" with events recorded as:

```
events2 = ['kris 45+1 S avery',  
          'robin 46 G']
```

The chronological order of events is:

```
edc alex 12 G  
edc sam 43 Y  
cde kris 45+1 S avery
```

*cde robin 46 G*

## Function Description

Complete the function *getEventsOrder* in the editor below.

*getEventsOrder* has the following parameter(s):

*string team1*: a string, the name of the first team

*string team2*: a string, the name of the second team

*string events1[n1]*: an array of strings that describe the events of the first team

*string events2[n2]*: an array of strings that describe the events of the second team

## Returns

*string[n]*: an array of strings

## Constraints

- $0 \leq \text{length of events1, events2} \leq 20$
- $0 < \text{length of team's name} \leq 50$
- $0 < \text{length of player's name} \leq 50$
- The team names and employee names will consist only of lowercase English letters and blank space
- time will be between 0 to 90
- extra time will always be written after +

Input Format For Custom TestingSample Case 0

## Sample Input For Custom Testing

STDIN	Function
-----	-----
abc	→ team1 = 'abc'
cba	→ team2 = 'cba'
2	→ events1[] size n1 = 2
mo sa 45+2 Y	→ events1 = ['mo sa 45+2 Y', 'a 13 G']
a 13 G	
2	→ events2[] size n2 = 2
d 23 S f	→ events2 = ['d 23 S f', 'z 46 G']
z 46 G	

## Sample Output

```
abc a 13 G
cba d 23 S f
abc mo sa 45+2 Y
cba z 46 G
```

### Explanation

The first event happens at the 13<sup>th</sup> minute (G), then the next event happens at the 23<sup>rd</sup> minute (S). The next one occurs at the 45+2<sup>nd</sup> minute (Y), and the last event at the 46<sup>th</sup> minute (G).

Sample Case 1

### Sample Input For Custom Testing

STDIN	Function
-----	-----
nolh	→ team1 = 'nolh'
uzrdr rc slcp x	→ team2 = 'uzrdr rc slcp x'
3	→ events1[] size n1 = 3
inmuucz jzbkica 70 Y	→ events1 = ['inmuucz jzbkica 70 Y', 'ton wfnt 10 S inmuucz jzbkica', 'ecya kgvgy 20 S fkfk fuiyb senmofw']
ton wfnt 10 S inmuucz jzbkica	
ecya kqvgy 20 S fkfk fuiyb senmofw	
3	→ events2[] size n2 = 3
mysior pqfcz bxlnpn 49 G	→ events2 = ['mysior pqfcz bxlnpn 49 G', 'mysior pqfcz bxlnpn 18 G', 'enc otagavd oevfg 68 Y']
mysior pqfcz bxlnpn 18 G	
enc otagavd oevfg 68 Y	

### Sample Output

```
nolh ton wfnt 10 S inmuucz jzbkica
uzrdr rc slcp x mysior pqfcz bxlnpn 18 G
nolh ecya kqvgy 20 S fkfk fuiyb senmofw
uzrdr rc slcp x mysior pqfcz bxlnpn 49 G
uzrdr rc slcp x enc otagavd oevfg 68 Y
nolh inmuucz jzbkica 70 Y
```

### Explanation

The times for each event are all different, so these can be sorted based only on time.