



Practice Mode Rank: 677 Score: 0

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Kickstart Practice Round 2018

[A. GBus count](#)[B. Googol String](#)**C. Sort a scrambled itinerary**[D. Sums of Sums](#)[Ask a question](#)[View my submissions](#)

Submissions	
GBus count	
9pt	Not attempted 662/821 users correct (81%)
15pt	Not attempted 628/659 users correct (95%)
Googol String	
7pt	Not attempted 377/425 users correct (89%)
12pt	Not attempted 247/353 users correct (70%)
Sort a scrambled itinerary	
11pt	Not attempted 383/421 users correct (91%)
15pt	Not attempted 352/382 users correct (92%)
Sums of Sums	
8pt	Not attempted 228/273 users correct (84%)
28pt	Not attempted 37/150 users correct (25%)

Top Scores	
Artie	105
Ayush.Agrawal	105
zzxzxzzx	105
mr.Nilesh	105
Doju	105
VietaFan	105
JohnSmith	105
wilsonlym	105
pedrosorio	105
ivanilos	105

Problem C. Sort a scrambled itinerary

This contest is open for practice. You can try every problem as many times as you like, though we won't keep track of which problems you solve. Read the [Quick-Start Guide](#) to get started.

Small input
11 points

Solve C-small

Judge's response for last submission: Correct.

Large input
15 points

Solve C-large

Judge's response for last submission: Correct.

Problem

Once upon a day, Mary bought a one-way ticket from somewhere to somewhere with some flight transfers.

For example: SFO->DFW DFW->JFK JFK->MIA MIA->ORD.

Obviously, transfer flights at a city twice or more doesn't make any sense. So Mary will not do that.

Unfortunately, after she received the tickets, she messed up the tickets and she forgot the order of the ticket.

Help Mary rearrange the tickets to make the tickets in correct order.

Input

The first line contains the number of test cases **T**, after which **T** cases follow. For each case, it starts with an integer **N**. There are **N** flight tickets follow. Each of the next 2 lines contains the source and destination of a flight ticket.

Output

For each test case, output one line containing "Case #x: itinerary", where **x** is the test case number (starting from 1) and **itinerary** is sorted list of flight tickets which represents the actual itinerary. Each flight segment in the itinerary should be outputted as pair of source-destination airport codes.

Limits
 $1 \leq T \leq 100$.

For each case, the input tickets are messed up from an entire itinerary bought by Mary. In other words, it's ensured can be recovered to a valid itinerary.

Small dataset
 $1 \leq N \leq 100$.
Large dataset
 $1 \leq N \leq 10^4$.

(The segment for second case in sample can be seen as below) MIA-ORD, DFW-JFK, SFO-DFW, JFK-MIA

Sample

Input	Output
2	Case #1: SFO-DFW
1	Case #2: SFO-DFW DFW-JFK JFK-MIA MIA-ORD
SFO	
DFW	
4	
MIA	
ORD	
DFW	
JFK	
SFO	
DFW	
JFK	
MIA	

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