2 Football is back

“The wait is finally over. The world’s most captivating sport returns for another year of drama, intrigue, beauty and suspense. (Soccer) Football is back.”

With the season about to start, teams have changed and players have transferred. Weirdly enough, players seem to have switched sides by swapping teams. You have been tasked with updating the list of players in each team given the existing roster.

2.1 Input

The first line will be an integer value of the number of teams. The second line will be an integer value of the number of players per team. The third line will be an integer value of the number of swaps.

The next part of the input will have the team name on its own line, followed by each of the player names on their own respective lines.

This will repeat for the total number of teams. Following that, the names of the two players to swap, each on their own line, will be given. This will repeat for the total number of swaps.

You may assume the following:

• All names will only contain alphabetic characters
• Team names and player names will be terminated by a newline
• All swaps are valid (player will exist on a team and will always swap to a different team)

2.2 Output

The final roster after all of the swaps have been performed. The roster should be printed in alphabetic order by both the team names and the individual players on each team.

There is a “:” and a single white-space after the team name.

There is a comma and a single space after every player name except for the last player. Make sure to maintain the capitalization from the input for the output.

SAMPLE INPUT/OUTPUT ON THE NEXT PAGE
## 2.3 Sample Input/Output

<table>
<thead>
<tr>
<th>Sample Input</th>
<th>Sample Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inter Miami: Harry Maguire, Lionel Messi, Marco Verratti</td>
<td>Inter Miami: Harry Maguire, Lionel Messi, Marco Verratti</td>
</tr>
<tr>
<td>Man Utd: Bruno Fernandes, Leonardo Campana, Marcus Rashford</td>
<td>Man Utd: Bruno Fernandes, Leonardo Campana, Marcus Rashford</td>
</tr>
</tbody>
</table>

For the given input and output, the following is a visual representation of the values before the swap operations.

**Paris SG:** Marco Verratti, Layvin Kurzawa, Lionel Messi  
**Inter Miami:** Leonardo Campana, Edison Azcona, Victor Ulloa  
**Man Utd:** Marcus Rashford, Bruno Fernandes, Harry Maguire

Below are the 3 Swaps. It’s important to remember that a swap consists of **two players**, so since there are 3 swaps, the final 6 lines represent them in the input for this example.

Harry Maguire $\leftrightarrow$ Leonardo Campana  
Lionel Messi $\leftrightarrow$ Victor Ulloa  
Edison Azcona $\leftrightarrow$ Marco Verratti

After these swaps and alphabetizing, you should be able to get the final output.