

12. Sara

Program Name: Sara.java

Input File: sara.dat

Sara is a wedding planner. For each wedding Sara's clients provide a list of guests from both the groom and the bride. Usually those lists overlap and have a few of the same names on both lists. For each wedding, seating arrangements are very important. Sara needs four alphabetized lists of guests for each wedding, the first of all guests attending, another of guests appearing on both bride's and groom's lists (they can be seated next to anyone), a third of the bride's guests not on the groom's list (they will be seated together) and finally a list of the groom's guests not on the bride's list (who will also be seated together). Write a program that will help Sara create her wedding day guest lists.

Input: A whole number N representing the number of weddings Sara will be planning. For each of the N weddings there will be two lines of data, each containing a list of names. The first line will be the bride's guest list and the second line will be the groom's guest list. Both the bride and groom will always have at least one guest. The names will all only be one name and there will not be any duplicates within a list.

Output: The output for each wedding will consist of four lines where each line is one of the lists described above. Each list should be shown in the order and labeled as shown in the sample output. If any list is empty, print the label for that list followed by "none". End each set of wedding lists with a row of 20 dashes.

Sample input:

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2
Aaron Kathryn Joanna Dylan Dasha Tamas Anu Vlad
Lucia Mary Boris David Aaron Joanna Masha Goro
Botan Dawn Amanda Ian Gowri
John Katya Anusha Ian Dawn Sarah Nishant Mateo
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Sample output:

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Guests: Aaron Anu Boris Dasha David Dylan Goro Joanna Kathryn Lucia Mary Masha Tamas Vlad
Guests of Both: Aaron Joanna
Bride's Guests: Anu Dasha Dylan Kathryn Tamas Vlad
Groom's Guests: Boris David Goro Lucia Mary Masha
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Guests: Amanda Anusha Botan Dawn Gowri Ian John Katya Mateo Nishant Sarah
Guests of Both: Dawn Ian
Bride's Guests: Amanda Botan Gowri
Groom's Guests: Anusha John Katya Mateo Nishant Sarah
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