Problem VOICE: Voice Actors

Most voice actors of "The Simpsons"-show perform the voices for more than one character. The main actors are getting $8 million for a season. However, they are rarely ready to record the dialogues on time, because nobody has a list of voice actors per scene.

Nevertheless, the mapping from voice actor to character is known and the characters in each scene are known, too. *Fox Network* asks you to create a list of voice actors for each scene.

Input

The input consists only of one testcase. The number of voice actors v is given on the first line ($0 < v \leq 10$). The following v lines contain the mapping from voice actor to Simpson character. Each mapping is started by the voice actor's name followed by an integer n_i and the n_i character names on one line ($0 < n_i \leq 100$). Each name contains up to 32 upper- and lowercase letters.

The next line denotes the number of scenes s ($0 < s \leq 100$). Each of the following s lines contains the number of characters and their names on one line.

Output

For each scene in the input, write a line containing the string 'Voice actors in scene #', the scene number and the necessary voice actors divided by a single space. If there is more than one voice actor, order their names lexicographically. Each voice actor should be listed only once per scene. See the sample output for details.

Sample Input 1

```
6
DanCastellaneta 7 HomerSimpson AbrahamSimpson Krusty Barney Willie JoeQuimby Itchy
JulieKavner 5 MargeSimpson PattyBouvier SelmaBouvier JacquelineBouvier GladysBouvier
NancyCartwright 5 BartSimpson NelsonMuntz ToddFlanders RalphWiggum MaggieSimpson
YeardleySmith 1 LisaSimpson
HankAzaria 3 MoeSzyslak ChiefWiggum Apu
HarryShearer 5 MrBurns Smithers SeymourSkinner NedFlanders ReverendTimothyLovejoy
4
5 HomerSimpson MargeSimpson BartSimpson LisaSimpson MaggieSimpson
2 HomerSimpson MoeSzyslak
3 MargeSimpson SelmaBouvier PattyBouvier
4 BartSimpson NelsonMuntz LisaSimpson Krusty
```

Sample Output 1

```
Voice actors in scene #1: DanCastellaneta JulieKavner NancyCartwright YeardleySmith
Voice actors in scene #2: DanCastellaneta HankAzaria
Voice actors in scene #3: JulieKavner
Voice actors in scene #4: DanCastellaneta NancyCartwright YeardleySmith
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