Batch Cooking (Easy)

Time limit: 1s **Memory limit: 2GB**

Chef Skinner has been tasked with making many servings of soup for dinner service at Gusteau's restaurant. There are N portions of different ingredients in the kitchen, and K unique ingredients altogether. Chef Skinner decides to use one portion of all K ingredients in each serving of his soup, and wants to make as many servings as possible.

Each portion of ingredient has been carefully indexed in the kitchen. To cook each serving, Skinner will use the lowest-indexed portion of each ingredient, cook it all together, before moving on to the next serving.

Find out how many servings of soup Chef Skinner can make from the available ingredients.

Input and Output

The first line of input contains two integers N, the total number of ingredients, and K, the number of unique ingredients.

The next N lines will contain a string a_i for $1 \leq i \leq N$ of lowercase English letters only, representing the ingredient portion which has been labeled index i.

Output one integer s, the maximum number of servings Chef Skinner can cook, followed by s lines, where the jth line lists the portion indices that Skinner will use to cook the jth serving of soup. Within each line, output the indices in ascending order.

Constraints

$1 \leq K \leq N \leq 10^5$

Each ingredient is between 1 and 20 lowercase characters long, inclusive.

Sample Input (stdin)

```
5 2
carrot
cabbage
cabbage
cabbage
carrot
```

Sample Output (stdout)

```
2
1 2
3 5
```