Write a program that reads a sequence of \( n \) words and prints the \( k \) most frequent (in case of a tie, the smallest in alphabetical order).

**Input**

Input consists of several cases. Every case starts with \( n \) and \( k \), followed by \( n \) words made up of only lowercase letters. You can assume that \( k \) is between 1 and the number of different words.

**Output**

For every case, print the \( k \) most frequent words in order. Print first the most frequent words, and in case of a tie, the smallest words in lexicographical order. Print a line with 10 dashes at the end of each case.

**Sample input**

```
5 1
hola adeu adeu bye hola
5 2
hola adeu adeu bye hola
5 3
hola adeu adeu bye hola
```

**Sample output**

```
adeu
---------
adeu
date
---------
adeu
defa
bye
---------
```

**Problem information**

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Generation : 2016-12-13 14:30:54

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