



## ☆ Sort hotels list

Given a set of hotels and its guests reviews, sort the hotels based on a list of words specified by a user.

The criteria to sort the hotels should be how many times the words specified by the user is mentioned in the hotel reviews.

### Input:

The first line contains a space-separated set of words which we want to find mentions in the hotel reviews.

The second line contains one integer **M**, which is the number of reviews.

This is followed by **M+M** lines, which alternates an hotel ID and a review belonging to that hotel.

### Output:

A list of hotel IDs sorted, in descending order, by how many mentions they have of the words specified in the input.

### Notes:

- \* The words to be find will **always** be single words like 'breakfast' or 'noise'. **Never** double words like 'swimming pool'.
- \* Hotel ID is a 4-byte integer
- \* Words match should be case-insensitive
- \* Dots and commas should be ignored.
- \* If a word appears in a review twice, it should count twice.
- \* If two hotels have the same number of mentions, they should be sorted in the output based on their ID, smallest ID first.
- \* In case one or more test cases time out, consider revisiting the runtime complexity of your algorithms

### Sample Input

```
breakfast beach citycenter location metro view staff price
5
1
This hotel has a nice view of the citycenter. The location is perfect.
2
The breakfast is ok. Regarding location, it is quite far from citycente
r but price is cheap so it is worth.
1
```



That is not fair.

2

Very friendly staff and good cost-benefit ratio. Its location is a bit far from citycenter.

1

### Sample Output

2 1

2

3

### Explanation

Hotel 2 has 7 mentions of the words: "location" and "citycenter" are mentioned twice while "breakfast", "price" and "staff" are mentioned once. Hotel 1 in the other hand has 6 mentions in total "location" and "citycenter" also twice and then "view" and "metro" once.

4

### YOUR ANSWER

We recommend you take a quick tour of our editor before you proceed. The timer will pause up to 90 seconds for the tour.



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For help on how to read input and write output in Java 7, click here.



Original code

Java 7



```
1 import java.io.*;
2 import java.util.*;
3 import java.text.*;
4 import java.math.*;
5 import java.util.regex.*;
6
7 public class Solution {
8     public static void main(String args[] ) throws Exception
9     {
10         /* Enter your code here. Read input from STDIN. Print
11            output to STDOUT */
12     }
```

Line: 1 Col: 1



(You can submit any number of times)

[Download sample test cases](#)*Notepad to edit them on windows.**The input/output files have Unix line endings. Do not use*

1

2

3

4



1

2

3

4