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| Excuses, Excuses! |

Judge Ito is having a problem with people subpoenaed for jury duty giving rather lame excuses in order to avoid serving. In order to reduce the amount of time required listening to goofy excuses, Judge Ito has asked that you write a program that will search for a list of keywords in a list of excuses identifying lame excuses. Keywords can be matched in an excuse regardless of case.

**Input**

Input to your program will consist of multiple sets of data.

* Line 1 of each set will contain exactly two integers. The first number ( tex2html_wrap_inline30) defines the number of keywords to be used in the search. The second number ( tex2html_wrap_inline32) defines the number of excuses in the set to be searched.
* Lines 2 through *K*+1 each contain exactly one keyword.
* Lines *K*+2 through *K*+1+*E* each contain exactly one excuse.
* All keywords in the keyword list will contain only contiguous lower case alphabetic characters of length *L* ( tex2html_wrap_inline42) and will occupy columns 1 through *L* in the input line.
* All excuses can contain any upper or lower case alphanumeric character, a space, or any of the following punctuation marks [SPMamp".,!?&] not including the square brackets and will not exceed 70 characters in length.
* Excuses will contain at least 1 non-space character.

**Output**

For each input set, you are to print the worst excuse(s) from the list.

* The worst excuse(s) is/are defined as the excuse(s) which contains the largest number of incidences of keywords.
* If a keyword occurs more than once in an excuse, each occurrance is considered a separate incidence.
* A keyword ``occurs" in an excuse if and only if it exists in the string in contiguous form and is delimited by the beginning or end of the line or any non-alphabetic character or a space.

For each set of input, you are to print a single line with the number of the set immediately after the string ``Excuse Set #". (See the Sample Output). The following line(s) is/are to contain the worst excuse(s) one per line exactly as read in. If there is more than one worst excuse, you should print them in the original order.

After each set of output, you should print a blank line.

**Sample Input**

5 3

dog

ate

homework

canary

died

My dog ate my homework.

Can you believe my dog died after eating my canary... AND MY HOMEWORK?

This excuse is so good that it contain 0 keywords.

6 5

superhighway

crazy

thermonuclear

bedroom

war

building

I am having a superhighway built in my bedroom.

I am actually crazy.

1234567890.....,,,,,0987654321?????!!!!!!

There was a thermonuclear war!

I ate my dog, my canary, and my homework ... note outdated keywords?

**Sample Output**

Excuse Set #1

Can you believe my dog died after eating my canary... AND MY HOMEWORK?

Excuse Set #2

I am having a superhighway built in my bedroom.

There was a thermonuclear war!

5 3

dog

ate

homework

canary

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Can you believe my dog died after eating my canary... AND MY HOMEWORK?

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5 15

swim

danced

jumped

run

played

I'll swim as soon as you have danced.

Erika has already studied.

Have the librarians worked?

He's just jumped.

Haven't the plumbers ever driven?

Haven't you already run?

The pilots have walked since the week before last.

I haven't skied.

Have you already prayed?

I have talked since two days ago.

I have sung from six until eight.

I'll sing as soon as you have studied.

Have the thieves ever run?

Willie has eaten since many years ago.

Has Jennifer sung?

6 9

swimming

fighting

slowly

bridge

nicely

quickly

The lawyers weren't shouting quickly.

You weren't swimming nicely,You weren't swimming below the bridge.

Weren't those politicians sleeping slowly?

165416 11941....????@@@@#####.

I was swimming slowly.

Steve was swimming last week.

Was George fighting the year before last?

You weren't walking in the living room.

Three years ago I was still walking.

9 20

company

barbershop

photographer

announcer

river

swimming

shouting

driving

doghouse

John is eating at present.

That news announcer is not driving at the barbershop.

They aren't jogging between the two mountains these days.

You are always shouting.

Mrs. O'Day is not swimming over there.

I'm not praying.

That student isn't playing in the doghouse.

They aren't writing over there at the moment.

Those dentists aren't skiing at this exact moment.

That lawyer isn't running in the river.

Suzanne is eating next to the police station.

Those police officers are cooking at the company.

Marge isn't singing right at this time.

Is the plumber writing?

They aren't cooking these days.

I am cooking on the top of the mountain.

Jennifer is always shouting.

I'm not singing.

They are not reading today.

That photographer isn't surfing in London right now

﻿Excuse Set #1↵\r\n

Can you believe my dog died after eating my canary... AND MY HOMEWORK?↵\r\n

↵\r\n

Excuse Set #2↵\r\n

I am having a superhighway built in my bedroom.↵\r\n

There was a thermonuclear war!↵\r\n

↵\r\n

Excuse Set #3↵\r\n

I'll swim as soon as you have danced.↵\r\n

↵\r\n

Excuse Set #4↵\r\n

You weren't swimming nicely,You weren't swimming below the bridge.↵\r\n

↵\r\n

Excuse Set #5↵\r\n

That news announcer is not driving at the barbershop.↵\r\n

↵\r\n