

# Problem F

## Spell Checker Suggestions

Spell checkers nowadays are pretty smart, but we'll focus our attention on the ones of the past that were only able to make simple suggestions. Given a dictionary of  $N$  words, all of length  $L$ , for each of  $M$  query words determine if it is correctly spelled or can be corrected by replacing a single letter.



### Input

The input file starts with an integer  $T$  ( $1 \leq T \leq 20$ ), the number of test cases.

Each test case starts with three integers on the first line,  $N$ ,  $L$  and  $M$ , as described in the problem statement. ( $3 \leq L \leq 10, 1 \leq N, M \leq 20\,000$ ) Next  $N$  lines contain dictionary words followed by  $M$  lines containing query words.

In each test case, all dictionary words will be unique and all words (both dictionary and query) will consist of  $L$  lower case characters from the English alphabet.

### Output

For each query word output “correct spelling” if the word is in the dictionary for that test case, otherwise output “ $S$  suggestion(s)” where  $S$  is the number of the words in the dictionary that can be obtained from the query word by replacing a single letter.

Sample Input	Sample Output
2	1 suggestion(s)
5 4 5	correct spelling
bass	3 suggestion(s)
boss	2 suggestion(s)
mass	1 suggestion(s)
mess	0 suggestion(s)
past	1 suggestion(s)
loss	
boss	
pass	
mast	
base	
3 3 2	
zwx	
rrf	
ooa	
rwt	
oof	