

# Waterloo 2001 Fall 1 C - Babelfish

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**Time limit:** 1.0s    **Memory limit:** 64M

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You have just moved from Waterloo to a big city. The people here speak an incomprehensible dialect of a foreign language. Fortunately, you have a dictionary to help you understand them.

Input consists of up to 100 000 dictionary entries, followed by a blank line, followed by a message of up to 100 000 words. Each dictionary entry is a line containing an English word, followed by a space and a foreign language word. No foreign word appears more than once in the dictionary. The message is a sequence of words in the foreign language, one word on each line. Each word in the input is a sequence of at most 10 lowercase letters. Output is the message translated to English, one word per line. Foreign words not in the dictionary should be translated as `eh`.

## Sample Input

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```
dog ogday
cat atcay
pig igpay
froot ootfray
loops oopslay

atcay
ittenkay
oopslay
```

## Sample Output

---

```
cat
eh
loops
```