

Word Choice

Input File: word.txt

You have a very sloppy friend, who always switches words when writing sentences. Your job in Word Choice is to fix your friend's sentences.

Input:

The first line contains an integer N. The following N lines contain strings defining the switches you must make. They'll be formatted like this: wordA wordB. Whenever wordA, regardless of capitalization or attached punctuation, appears in an inputted sentence, you should replace it with wordB, and conversely. No word will ever appear in two switches. After the switches, the next line contains another integer M. The following M lines contain the sentences that you need to manipulate.

Output:

Output the sentences with any instance of a word in the switches, switched with the corresponding word.

Example Input:

```
5
affect effect
except accept
alternately alternatively
bare bear
censor sensor
4
The colors had a great affect on him, accept blue.
We alternatively took turns fighting the bare, bear handed.
China wants to sensor the affect of a bare in the cities.
The college will except me into their college, or alternately will reject me.
```

Example Output:

```
The colors had a great effect on him, except blue.
We alternately took turns fighting the bear, bare handed.
China wants to censor the effect of a bear in the cities.
The college will accept me into their college, or alternatively will reject me.
```