# Problem F1: Auto-correct - Easy

5 points

Problem | My Submissions

Spelling is hard and spelling on a keyboard is even harder - this is what you realized after your best friend Alex gave you their latest school essay to proof-read. Luckily you're a good friend, and what you decided to return was not only a print-out of Alex's essay, all in red, but also a script autocorrecting text automatically (you really are a good friend).

This challenge will take you through the process of designing a simple autocorrection system. Apart from the input, each variant of the problem will require additional textual resources - all the variants will need to use *a dictionary* and in case of the hard variant you will also need to use *a confusion matrix*. Download instructions and format details of those can be found at the end in the *Extra resources* section.

The first step in your autocorrection script involves identifying potential misspellings. Use the provided dictionary to decide if a word is spelled correctly.

### Input Format

The input will consist of a single, non-negative integer 0 < ***N*** <= 1000 in the first line, followed by ***N*** lines, each consisting of a single word of length <= 50 characters. Words contain only lowercase letters from *a* to *z*.

### Output Format

For each word in the input, print a single output line saying `IN` if the corresponding input word exists in the dictionary or `OUT` if it doesn't.

### Sample Input

```
2
```

### Sample Output

```
IN
OUT
```

### Extra resources

#### Dictionary

You can download the dictionary following this link. The dictionary was created by taking all the words in a snapshot of English Wikipedia (modulo some basic filtering), and counting their occurrences. Each line in the dictionary consists of a unique word (only lowercase letters between a and z) and a positive integer representing the number of occurrences of the word in Wikipedia, separated by tab.

### Sample Input

```
2
hello
wotld
```

### Sample Output

```
IN
OUT
```