

Problem 2—Spell Check

The castaways never seem to learn. Recently, they asked first mate Willy Gilligan to write a note for help which they will place into a bottle and throw into the lagoon. Little do they know that the note will be found but help will not be forthcoming because Gilligan's spelling is so bad that no one will be able to understand the note! If only Gilligan had access to a spell check program, things might have gone differently. You are to write such a program.

A “Gilligan-word” matches a dictionary word if and only if they are exactly the same length and they differ by no more than one letter. Given a dictionary (which will be sorted alphabetically) you are to print out a list of matches for each of Gilligan's words.

INPUT SPECIFICATION. The input file begins with a dictionary containing no more than 1000 words. The words will be in alphabetical order and will each be alone on its line (terminated by <EOLN>). An extra <EOLN> will follow the last word in the dictionary. Following this will be Gilligan's words, also each alone on its line. An extra <EOLN> will follow Gilligan's last word. No word will exceed twenty letters. No word will contain anything other than capital letters. No spaces will appear in this file, nor will there be extra <EOLN>'s other than what is specified.

OUTPUT SPECIFICATION. The output solutions should appear in the same order as their corresponding input cases (Gilligan words). Each solution begins with the line “Matches for s:<EOLN>” where s is the Gilligan word. Following this line should be the dictionary matches, in alphabetical order, for that word, each alone on its line. An extra <EOLN> should follow each output case. There should be no extra spaces or <EOLN>'s in the output file beyond what is specified here.

SAMPLE INPUT.

```
BALD<EOLN>
BALL<EOLN>
DOG<EOLN>
<EOLN>
BALDY<EOLN>
DOG<EOLN>
FOG<EOLN>
DOO<EOLN>
BALB<EOLN>
<EOLN>
<EOF>
```

SAMPLE OUTPUT.

```
Matches for BALDY:<EOLN>
<EOLN>
Matches for DOG:<EOLN>
DOG<EOLN>
<EOLN>
Matches for FOG:<EOLN>
DOG<EOLN>
<EOLN>
Matches for DOO:<EOLN>
DOG<EOLN>
<EOLN>
Matches for BALB:<EOLN>
BALD<EOLN>
BALL<EOLN>
<EOLN>
<EOF>
```