

Problem 3—The Babel Fish

The Babel Fish is small, yellow, and leechlike. When you stick one in your ear, you can instantly understand anything spoken to you in any form of language. In this case, the Babel Fish will translate from English to Alfalfa Language.

In Alfalfa Language, each syllable is extended by repeating the vowel with an “lf” between the vowels. So, “cat” becomes “calfat” and “dog” becomes “dolfog.” If a syllable contains more than one consecutive vowel, the entire chain is repeated: “paid” becomes “pailfaid.”

Your program should apply the transformation to every chain of vowels it sees. A, E, I, O, and U are always vowels. Y is a vowel unless it is the first letter of a word. W is a vowel if it immediately follows A, E, I, O, or U. This doesn't actually cover 100% of all words in the English language correctly (the silent e's at the end of words will be treated as new syllables for example), but that's OK. Just apply the transformation as defined here.

INPUT SPECIFICATION. The entire input file is one long case.

OUTPUT SPECIFICATION. The output file is a copy of the input file, except that all vowel chains should be converted to Alfalfa. All non-letters should be copied verbatim to the output file. The vowel chain to the right of the “lf” should never contain a capital letter even if the vowel chain to the left does.

SAMPLE INPUT.

```
It·was·the·best·of·times;·it·was·the·worst·of·times.<EOLN>
<EOLN>
Yesterday,·all·my·troubles·seemed·so·far·away.<EOLN>
<EOLN>
How·now·brown·cow!<EOLN>
<EOF>
```

SAMPLE OUTPUT.

```
Ilfit·walfas·thelfe·belfest·olfof·tilfimelfes;·ilfit·walfas·thelfe·wolforst·olfof·tilf
imelfes.<EOLN>
<EOLN>
Yelfestelferdaylfay,·alfall·mylfy·troulfoublelfes·seelfeemelfed·solfo·falfar·awaylfawa
y.<EOLN>
<EOLN>
Howlfow·nowlfow·browlfown·cowlfow!<EOLN>
<EOF>
```