

## Problem 2—TeX Quotes

TeX is a typesetting language developed by Donald Knuth. It takes source text together with a few typesetting instructions and produces, one hopes, a beautiful document. Beautiful documents use “ and ”—which are not ASCII—to surround quotations rather than the mundane ASCII character ". TeX, unlike programs such as Microsoft Word, generates its special symbols via a sequence of ASCII characters as opposed to a complex keyboard sequence. The open quote is specified by `` in the input file, and the close quote is specified by '' (two grave accent marks and two apostrophes, respectively). However, most touch-typists are accustomed to using " (the ASCII quotation mark) to represent both the open and close quote. Unfortunately, TeX doesn't recognize the ASCII quotation mark. For example, here is a piece of text as most typists would enter it:

```
"To be or not to be," quoth the bard, "that is the question."
```

TeX would not process this sentence correctly. In order to get really nice-looking quotation marks, the sentence would have to be typed like this:

```
``To be or not to be,'' quoth the bard, ``that is the question.''
```

You are to write a program which converts text containing the ASCII quotation mark into text that is identical except that each ASCII quotation mark is to be replaced by two grave accent marks or two apostrophes, whichever is appropriate. Notice that the question of nested quotations does not arise: The first ASCII quotation mark must be replaced by two grave accent marks, the second by two apostrophes, the third by two grave accent marks, the fourth by two apostrophes, etc.

**INPUT SPECIFICATION**

The input will contain one or more lines of text; the last line of which is simply END<EOLN>. There is exactly one line in the file that is END<EOLN>, and that line is the last line. There is no limit on line length; however, the input file will contain no more than 10000 characters total.

**OUTPUT SPECIFICATION**

The final END<EOLN> line is not to be processed. Other than that, the rest of the file is to be interpreted as a single text document that needs to be converted to TeX. In other words, this file does not contain multiple test cases; it is a single test case. The output file should match the input file exactly, except that the ASCII quotation marks in the input file are replaced with two grave accent marks or two apostrophes as described above, and that the output file should not contain the END<EOLN> directive.

**SAMPLE INPUT**

```
"To be or not to be," quoth the Bard, "that<EOLN>
is the question".<EOLN>
The programming contestant replied: "I must disagree.<EOLN>
To `C' or not to `C', that is The Question!"<EOLN>
END<EOLN>
<EOF>
```

**SAMPLE OUTPUT**

```
``To be or not to be,'' quoth the Bard, ``that<EOLN>
is the question''. <EOLN>
The programming contestant replied: ``I must disagree.<EOLN>
To `C' or not to `C', that is The Question!''<EOLN>
<EOF>
```