

## Winnie-the-Pooh and a Spelling Tutor: Solution

The spelling tutor computes the *edit distance* between the given word spelling and the correct spelling. We use the standard definition of the *edit distance*; that is, this distance is the minimal number of operations required for converting one of the two given strings into the other, where each operation is one of the following three:

- Removal of a letter.
- Insertion of a letter anywhere in the string.
- Replacement of a letter with any other letter.

The tutor converts the edit distance to a comment using the following scheme:

<b>Distance</b>	<b>Comment</b>
0	no comment; correct
1	almost right
2	quite close
3	a bit confusing
4	very confusion

The examples in the problem do not show comments for the edit distance of 5 or greater because Christopher Robin never makes so many mistakes in a single word.

The edit distances and related comments for the given misspellings of “typo” are as follows:

<b>Misspelling</b>	<b>Distance</b>	<b>Comment</b>
oooo	3	a bit confusing
opyt	4	very confusing
pyto	2	quite close
typ	1	almost right
typa	1	almost right
typotypo	4	very confusing