

Problem 7—Secret Message

Professor Plum's wife enjoys reading "spy" novels. She likes to send him encoded messages. He hates it, but at least her encryption scheme is simple. She replaces each letter with the corresponding letter from the other end of the alphabet. A's become Z's. B's become Y's, etc. Capital letters are replaced with capital letters. Lower-case letters are replaced with lower-case letters. All other characters are left unchanged.

Given an encoded message, you are to decode it.

INPUT SPECIFICATION— File name "prob7.in"

The input file contains the encoded message possibly split across multiple lines with each line naturally ended by an <EOLN>.

OUTPUT SPECIFICATION.

The output should contain the decoded message possibly split across multiple lines corresponding to the input file layout.

SAMPLE INPUT.

(NOTE: THE DOTS ('.') REPRESENT BLANK SPACES)

Gsv·jfrxp·yildm·ulc·qfnkvw·levi·gsv·ozab·wlth.<EOLN>

@#=zyxwvutsrqponmlkjihgfEDCBA<EOLN>

SAMPLE·OUTPUT.

The·quick·brown·fox·jumped·over·the·lazy·dogs.<EOLN>

@#=abcdefghijklmnopqrstuvwxyzVWXYZ<EOLN>

<EOF>