STA Online Computer Programming Contest (DWITE)
October 2003

Problem 3

QWERTY Keyboard Decoder

The QWERTY Keyboard Encoder is a simple encryption method for characters of the alphabet. It encodes a string of characters by choosing the letter on the QWERTY keyboard that is two keys to the right of the character to be encoded. For example, "j" encodes to "l", and "t" encodes to "u". Letters on the right side of the QWERTY keyboard "wrap around". For example, "p" encodes to "w" and "k" encodes to "a". Characters that are not letters of the alphabet are not encoded, and case is preserved.

Your job is to write a program that will decode a string of characters using the QWERTY Keyboard Encoder.

The input file (DATA3) will contain five lines of data. Each line will contain a string of no more than 255 characters that is the message encoded using the QWERTY Keyboard Encoder.

The output file (OUT3) will contain five lines of data, corresponding to the input file. Each line will contain the original message.

Sample Input (Only three lines given)

```
GRPUT Qzspzt Bqzutfu
Qbu. 23, 11:00 dx upss 2:00 wx
Jqqg Soba Uq Dss
```

Sample Output

```
DWITE Online Contest
Oct 23, 11:00 am till 2:00 pm
Good Luck To All
```