You are a RAW agent on a secret mission and you have to share very critical information with your team. It has to be a secret message as you can’t afford anyone else to understand even if they get access to it.

**Problem Description**

You’ve to write a code which converts the actual message into a secret (encrypted) message by replacing each character of the string by the character exactly preceding it. For instance, ‘C’ will be replaced with ’B’ and since there is no letter before ‘A’ so it will be replaced with ‘Z’. Same goes for the small letters as well, although the message has to be case sensitive. Make sure you don’t change any digit or special characters.

**Input Format**

The input is a single line of a single string containing space separated words.

**Output Format**

The corresponding output in the form of a single string is printed in the next line.

**Constraints**

0 <= (Length of string) <= 2147483647

**Sample Input**

Hey there! I'm in danger

**Sample Output**

Gdx sgdqd! H'l hm czmfdq

**Explanation**

Consider the word *Hey* where *H*, *e* and *y* are replaced by their preceding characters *G*, *d* and *x* respectively. Similarly the entire string has been encrypted. Note that the symbols (!) and (‘) are left unchanged. Similarly you’ve to keep digits unchanged too.