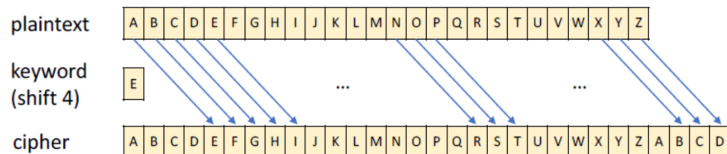


(10%) Vigenere Cipher (a)

Description

The Vigenere cipher is a method of encrypting alphabetic text based on the letters of a keyword. To explain how it works, assume that the plaintext to be encrypted is HELLO and the keyword is KEY. First, the keyword is repeated until it matches the length of the plaintext. (In this example, the keyword becomes KEYKE.) Then, each letter of the plaintext is replaced by a right-shifted letter based on the corresponding letter of the keyword: 'A' performs a right shift of 0, 'B' of 1, 'C' of 2, ... and 'Z' of 25 letters. (A right shift of 'Z' of 1 letter yields 'A'.) In the aforementioned example, HELLO is encrypted as RIJVS since 'K' (in KEY) shifts 'H' (in HELLO) 10 letters to become 'R' and 'E' (in KEY) shifts 'E' (in HELLO) 4 letters to 'I' as the following figure shows.



(a) Write a program that accepts a word of English letters (at most 100 letters) in upper and/or lower cases (e.g. "Hello" or "hello"). The program outputs the word in uppercase (e.g. HELLO in the previous example).

Input

A word of English letters (at most 100 letters) in upper and/or lower cases.

Output

The input word in upper case.

Sample Input 1

Hello

Sample Output 1

HELLO

Language: C++

Theme: Solarized Light

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