## Decrypt the Message

## Description

You have been tasked to create a program to decrypt a simple encrypted message. The steps to encrypt messages in this format are to:

1. Reverse the message content
2. Move every third (3rd, 6th, 9th...) character to the end of the message (sequentially)
3. Change each letter to the next letter of the alphabet ( $a->b, b->c, \ldots, z->a)$

For example, by following the steps above the message "abbcdd" is encrtypted as follows:

1. ddcbba
2. ddbbca
3. eeccdb

Your program must decrypt the given encrypted messages.

## Input

The first line contains a single positive integer $N$. The next $N$ lines each contain a single message composed of lowercase alphabetic characters (a-z).

## Output

For each of the $N$ lines, output the decrypted message as a string of lowercase lowercase alphabetic characters.

## Input

## 2

eeccdb
uijsjuhvztpjbmubhodhuppouvsp

## Output

abbcdd
congratulationsyougotitright

