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**Text decryption****P71082\_en**

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A simple yet unknown mathematical method  $X$  was used to encrypt texts made up of only lower-case letters, upper-case letters, spaces and punctuation characters. For every such text  $t$ , denote by  $X(t)$  the result of encrypting  $t$  with  $X$ . It is known that for two texts  $t_1 \neq t_2$ ,  $X(t_1) \neq X(t_2)$ .

Write a program to decrypt a text that was encrypted with  $X$ . Deduce  $X$  from the sample input and the sample output below.

**Input**

Input consists of one text encrypted with  $X$ , that is,  $X(t)$ . It has at most 1000 lines, each one with at most 1000 characters.

**Output**

Print the text such that, once encrypted, produced  $X(t)$ , that is, the original text  $t$ .

**Sample input 1**

```
Zrm ddsqthn kvr oechxp sm Rneweo ekeuo,  
Jxh srb phifbf rfsq gkndh clf sfe,  
Tqm osqu zzgfsmau yv cnku json xqu ryrx  
Ye deq earigwwqo Okxzrnp Kef.  
  
Vld wdv abce jhhbb aujqt, wjxqetd ydljxwau da gdbkli  
Rr wdv proplrrv Bdwecem Hnu;  
Oqz kvr gkwue kouua vjsf, fdj J pbqo pys ofzckf bidi  
Lb kvr pwwffptb Rroaciu Vdo;  
Eer fc, rho feo myplu-tjhn, S ksb prse pl hya vuao  
Xt zm uwuxfxf--ch hbrmmww--li iuia rbq ap xuuao,  
Ua hya vqmeksqvf tiau ai qth ovo,  
Vb yau flwa rh xie tsddcsks var.
```

**Sample output 1**

```
And neither the angels in Heaven above,  
Nor the demons down under the sea,  
Can ever dissever my soul from the soul  
Of the beautiful Annabel Lee.
```

```
For the moon never beams, without bringing me dreams  
Of the beautiful Annabel Lee;  
And the stars never rise, but I feel the bright eyes  
Of the beautiful Annabel Lee;  
And so, all the night-tide, I lie down by the side  
Of my darling--my darling--my life and my bride,  
In the sepulchre there by the sea,  
In her tomb by the sounding sea.
```

## Problem information

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