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C. Substitution Cypher

Time Limit: 1.0 Seconds Memory Limit: 65536K Multiple test files

Substitution cyphers are the simplest of cyphers where the letters of one alphabet are substituted for the letters of another alphabet. In one form or another, they've been in use for over 2000 years.

Input

A line containing the plaintext alphabet
A line containing the substitution alphabet
Several lines of text

Output

A line containing the substitution alphabet
A line containing the plaintext alphabet
The converted lines of text

Please note: All lines will be at most 64 characters, plus a trailing end-of-line character. Pass through all characters not found in the plaintext alphabet.

Sample Input

```
abcdefghijklmnopqrstuvwxyz  
zyxwvutsrqponmlkjihgfedcba  
Shar's Birthday:  
The birthday is October 6th, but the party will be Saturday,  
October 5. It's my 24th birthday and the first one in some  
years for which I've been employed. Plus, I have new clothes.  
So I have cause to celebrate. More importantly, though,  
we've cleaned the house! The address is 506-D Albert Street.  
Extra enticement for CS geeks: there are several systems in  
the house, and the party is conveniently scheduled for 3 hours  
after the second CSC programming contest ends (not to mention,  
within easy walking distance)!
```

Sample Output

```
zyxwvutsrqponmlkjihgfedcba  
abcdefghijklmnopqrstuvwxyz  
Sszi'h Brigswzb:  
Tsv yrigswzb rh 0xglyvi 6gs, yfg gsv kzigb droo yv Szgfiwzb,  
Oxglyvi 5. Ig'h nb 24gs yrigswzb zmw gsv urihg lmv rm hlnv  
bvzihi uli dsrxs I'ev yvnm vnkolbv. Pofh, I szez mvd xolgsvh.  
Sl I szez xzfiv gl xvovizgv. Mliv rnkligzmgob, gslfts,  
dv'ev xovzmv gsv slfiv! Tsv zwwivhh rh 506-D Aoyvig Sgivvg.  
Ecgi zvmgrxvnmv uli CS tvvph: gsviv ziv hvezio hbhgvnh rm  
gsv slfiv, zmw gsv kzigb rh xlmvmrmvgob hxsxwfov uli 3 slfih  
zugvi gsv hvxlmw CSC kiltiznnrmt xlmgvh vmwh (mlg gl nvmgrlm,  
drgsrm vzhb dzoprmt wrhgzmxv)!
```

Source: Waterloo Local Contest Oct. 5, 1996

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