## B. String inside out

time limit per test: 2 seconds memory limit per test: 256 megabytes

input: standard input output: standard output

You are given a string S of even length  $s_1...s_{2n}$  . Perform the following manipulations:

- divide it into two halves  $S_1...S_n$  and  $S_{n+1}...S_{2n}$
- reverse each of them  $s_n..s_1$  and  $s_{2n}..s_{n+1}$
- concatenate the resulting strings into  $S_n...S_1S_{2n}...S_{n+1}$

Output the result of these manipulations.

## Input

The only line of the input contains a string of lowercase Latin letters. The length of the string is between 2 and 20, inclusive, and it is even.

## **Output**

Output the string which is the result of the described manipulations.

## **Examples**

Examples	
input	
codeforces	
output	
fedocsecro	

input	
qwertyasdfgh	
output	
ytrewqhgfdsa	