

Pawel and Shaka recently became friends. They believe their friendship will last forever if they merge their favorite strings.

The lengths of their favorite strings are the same, n . Mingling two strings, $P = p_1p_2 \dots p_n$ and $Q = q_1q_2 \dots q_n$, both of length n , will result in the creation of a new string R of length $2 \times n$. It will have the following structure:

$$R = p_1q_1p_2q_2 \dots p_nq_n$$

You are given two strings P (Pawel's favorite) and Q (Shaka's favorite), determine the mingled string R .

Input Format

The first line of input contains the string P .
The second line contains Q .

Output Format

Print the mingled string, R .

Constraints

$1 \leq n \leq 10^5$
The string only consists of lowercase English characters ($a - z$).
 $length(P) = length(Q) = n$

Sample Input #00

```
abcde
pqrst
```

Sample Output #00

```
apbqcrdset
```

Sample Input #01

```
hacker
ranker
```

Sample Output #01

```
hraacnkkeerr
```

Explanation

Sample Case #00:

$P = a \ b \ c \ d \ e$
 $Q = p \ q \ r \ s \ t$
 $R = ap \ bq \ cr \ ds \ et$

Sample Case #01:

$P = h \ a \ c \ k \ e \ r$
 $Q = r \ a \ n \ k \ e \ r$
 $R = hr \ aa \ cn \ kk \ ee \ rr$

Tested by [Wanbo](#)