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## Broken palindromes

P54747\_en

Vuitè Concurs de Programació de la FME (2011-12-21)

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(The original statement in Catalan has some jokes. This English version goes straight to the point of the problem.)

A palindrome has been broken into pieces. Put the pieces together in the right order.

### Input

Input consists of several cases. Every case begins with the number of pieces  $n$ . Follow the  $n$  pieces, made up of only lowercase letters. Assume  $1 \leq n \leq 8$ .

### Output

For every case, print the palindrome that can be made by joining all the pieces. There is always exactly one solution.

#### Sample input

```
8
da
ba
learro
zal
azo
rra
ela
bad
3
b
a
a
2
votemos
someto
1
pop
```

#### Sample output

```
dabalearrozalazorraelabad
aba
sometovotemos
pop
```

### Problem information

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