

Dickinson 2015: Can't Read This

Your friend is a touch paranoid these days, and refuses to send plain emails. Instead, she first scrambles her emails according to a particular scheme she's developed. You've gotten tired of descrambling her emails by hand, and so set out to write a program to automate the process.

Her scheme is as follows: First, she only writes emails using the 26 characters of the Latin alphabet (upper and lowercase), digits, spaces, and punctuation marks. She takes her message, replaces every newline character with an asterisk (*), and forms one long string. She then takes all of the characters at even positions in that string (starting at 0) and puts them first, followed by all the characters at odd positions. Finally, she outputs her message in lines of exactly 30 characters each (except for the last line, which might be shorter).

For instance, if she wanted to send the message:

```
This is a message.  
Please don't tell anyone  
what it says.
```

She scrambles this into:

```
Ti samsae*laednttl noewa tsy.h  
si  esg.Pes o' elayn*hti as
```

Input Format

The input contains 1 or more lines of text. Each line is exactly 30 characters long, except possibly the last. The input can contain upper- and lowercase letters, digits, punctuation, and the asterisk. The input is terminated by end of file.

Output Format

Your output must consist of the original message.

Sample Input

```
Ti samsae*laednttl noewa tsy.h  
si  esg.Pes o' elayn*hti as
```

Sample Output

```
This is a message.  
Please don't tell anyone  
what it says.
```