

## A. Way Too Long Words

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

Sometimes some words like "localization" or "internationalization" are so long that writing them many times in one text is quite tiresome.

Let's consider a word *too long*, if its length is **strictly more** than 10 characters. All too long words should be replaced with a special abbreviation.

This abbreviation is made like this: we write down the first and the last letter of a word and between them we write the number of letters between the first and the last letters. That number is in decimal system and doesn't contain any leading zeroes.

Thus, "localization" will be spelt as "l10n", and "internationalization" will be spelt as "i18n".

You are suggested to automatize the process of changing the words with abbreviations. At that all too long words should be replaced by the abbreviation and the words that are not too long should not undergo any changes.

### Input

The first line contains an integer  $n$  ( $1 \leq n \leq 100$ ). Each of the following  $n$  lines contains one word. All the words consist of lowercase Latin letters and possess the lengths of from 1 to 100 characters.

### Output

Print  $n$  lines. The  $i$ -th line should contain the result of replacing of the  $i$ -th word from the input data.

### Examples

| input  | Copy |
|--|------|
| 4<br>word<br>localization<br>internationalization<br>pneumonoultramicroscopicsilicovolcanoconiosis |      |
| output   | Copy |
| word<br>l10n<br>i18n<br>p43s   |      |

### Codeforces Beta Round #65 (Div. 2)

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### → Virtual participation

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### → Submit?

 Language: JavaScript V8 4.8.0

 Choose file: [Choose File](#) No file chosen

Be careful: there is 50 points penalty for submission which fails the pretests or resubmission (except failure on the first test, denial of judgement or similar verdicts). "Passed pretests" submission verdict doesn't guarantee that the solution is absolutely correct and it will pass system tests.

[Submit](#)

### → Last submissions



| Submission                | Time              | Verdict                 |
|---------------------------|-------------------|-------------------------|
| <a href="#">139139475</a> | Dec/14/2021 15:48 | Accepted                |
| <a href="#">139139190</a> | Dec/14/2021 15:45 | Runtime error on test 1 |

### → Problem tags

[strings](#) [\\*800](#)

No tag edit access

### → Contest materials

- Announcement 
- Tutorial 

Server time: Dec/14/2021 11:07:20<sup>UTC-3</sup> (j3).

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