CODEFORCES
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PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

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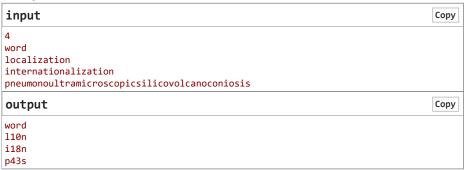
Input
The first line contains an integer n ($1 \leq n \leq 100$). Each of the following n lines contains one word. All the words consist of lowercase Latin letters and possess the lengths of from 1 to 100 characters.

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 word localization internationalization pneumonoultramicroscopicsilicovolcanoconiosis	

output	Copy
word l10n i18n p43s	

Codeforces Beta Round #65 (Div. 2)

Finished

→ Virtual participation

Virtual contest is a way to take part in past contest, as close as possible to participation on time. It is supported only ICPC mode for virtual contests. If you've seen these problems, a virtual contest is not for you - solve these problems in the archive. If you just want to solve some problem from a contest, a virtual contest is not for you - solve this problem in the archive. Never use someone else's code, read the tutorials or communicate with other person during a virtual contest.

[Start virtual contest]

→ Problem tags

strings *800

No tag edit access

→ Contest materials

- Announcement ✕
- Tutorial ✕

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