



H0ME TOP CONTESTS GYM **PROBLEMSET** GROUPS RATING EDU API CALENDAR HELP

* Rating changes for the last round are temporarily rolled back. They will be returned soon.

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.

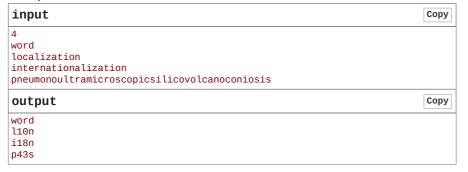
Input

The first line contains an integer n ($1 \le n \le 100$). 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 100characters.

Output

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

Examples



Codeforces Beta Round #65 (Div. 2) **Finished** Practice

B

→ 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.

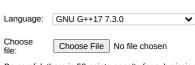
Start virtual contest

→ Clone Contest to Mashup

You can clone this contest to a mashup.

Clone Contest

→ Submit?



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
112093715	Apr/05/2021 19:54	Accepted

→ Problem tags

strings *800 No tag edit access

Contest materials

- Announcement ×
- Tutorial

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