3/4/25, 5:47 AM Problem - F - Codeforces

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F. Way Too Long Words

time limit per test: 1 second

memory limit per test: 256 megabytes

Given a string S. Print the **origin string** if it's **not too long** otherwise, print the **special abbreviation**.

Note: The string is called **too long**, if its length is strictly more than **10** characters. If the string is **too long** then you have to print the string in the following manner:

- · Print the first character in the string.
- Print number of characters between the first and the last characters.
- · Print the last character in the string.

For example: "localization" will be "I10n", and "internationalization" will be "i18n".

Input

The first line contains a number T ($1 \le T \le 100$) number of test cases.

Each of the *T* following lines contains a string S ($1 \le |S| \le 100$) where |S| is the length of the string.

It's guaranteed that ${\it S}$ contains only lowercase Latin letters.

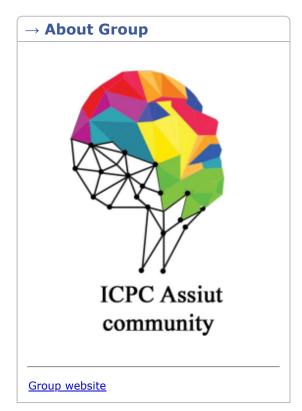
Output

For each test case, print the result string.

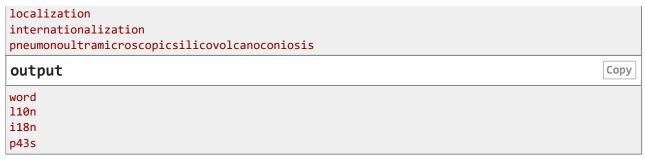
Example







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→ Group Contests

- Sheet #10 (General Hard)
- Sheet #9 (General medium)
- Sheet #8 (General easy)
- Sheet #7 (Recursion)
- Sheet #6 (Math Geometry)
- Sheet #5 (Functions)
- Sheet #4 (Strings)
- Contest #3.1
- Sheet #3 (Arrays)
- Contest #2
- Sheet #2 (Loops)
- Contest #1
- Sheet #1 (Data type Conditions)

Sheet #4 (Strings)

Finished

Practice



→ About Time Scaling

This contest uses time limits scaling policy (depending on a programming language). The system automatically adjusts time limits by the following multipliers for some languages. Despite scaling (adjustment), the time limit cannot be more than 30 seconds. Read the details by the link.

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→ Virtual participation

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Start virtual contest

→ Submit?	
Language:	GNU G++23 14.2 (64 bit, ms) ✓
Choose file:	Choose File No file chosen
Submit	

→ Contest materials

- Statements in PDF (en)
- Statements in PDF (en)

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