

# Problem D. D- string

**Time limit** 2000 ms

**Mem limit** 262144 kB

## Problem Statement

The word `internationalization` is sometimes abbreviated to `i18n`. This comes from the fact that there are 18 letters between the first `i` and the last `n`.

You are given a string  $s$  of length at least 3 consisting of lowercase English letters. Abbreviate  $s$  in the same way.

## Constraints

- $3 \leq |s| \leq 100$  ( $|s|$  denotes the length of  $s$ .)
- $s$  consists of lowercase English letters.

## Input

Input is given from Standard Input in the following format:

$s$

## Output

Print the abbreviation of  $s$ .

### Sample 1

Input	Output
internationalization	i18n

### Sample 2

Input	Output
smiles	s4s

### Sample 3

Input	Output
xyz	x1z