Reverse identifiers

Write the program that reverses all the identifiers from a given line. Identifier is a sequence of characters from set 'a'-'z' or 'A'-'Z' or '0'-'9' or '_', starting from any letter or underline character ('_').

Input

There are given some number of data sets. Each data set is a line consisting from the sequence of some number of words, separated by spaces. A word is a sequence of any ASCII characters of code from 33 till 126, e.g., aqui28$-3q or _dat_. The second word is an identyfier, but the first one not.

Output

Rewrite the line but with the reversed identifiers.

Example

Input:

Dato25 has 2 c-ats and 3 _dogs
op8ax _yu _yu67 great-job ax~no identifier.

Output:

52otaD sah 2 c-ats dna 3 sgod_
xa8po uy_ 76uy_ great-job ax~no identifier.