

drawkcaBsay iPgay itaLnay Day

Program Name: `day.java`

Input File: `day.dat`

The citizens of axeTsay have an unusual holiday they like to celebrate called drawkcaBsay iPgay itaLnay Day. On this day, the governor decrees that all citizens will speak in backwards pig latin. Naturally, this is a difficult task for many, and you are called in to write a translation program.

Input

Input to this problem will consist of a (non-empty) series of up to 100 data sets. A single data set is a single line containing a list of one or more words, delimited by a single space. Words are made only of alphabetic characters. There will be **no blank lines** separating data sets.

Output

For each data set, there will be exactly one line of output: the list of input words, each translated in backwards pig latin. To translate a word into backwards pig latin, do the following:

1. Reverse the order of the letters in the word.
2. Move the first letter of the new word to the end of the word.
3. Add the letters 'a' and 'y' to the end of the word.

Example Input File

```
Hello nice to meet you  
This is a funny way to talk
```

Example Output To Screen

```
lleHoay cineay toay eemtay oyuay  
ihTsay isay aay nnufyay awyay toay latkay
```