

Problem A

Abbreviating Names

Source file: abbreviating.{ c | cpp | java | py }

Author: Anderson V. Araujo, Caio Tokunaga e Pedro Flores (UFMS)

Yves is a receptionist at an art gallery and is organizing the opening of a new collection by a famous painter in the city. To save space on the pages and speed up the entry of each guest, he wants to put only an abbreviation of the full names of the guests in the entry list. For each guest, the first and last name must be inserted in full and the others in short form. Help Yves to create a program to accomplish this task.

Input

The entry contains several test cases, each case is a guest's name, containing from 2 to 100 characters, without special characters. The entry ends with EOF.

Output

The program must print the guest list so that it is ordered by the names with the middle names of each guest abbreviated.

Example of Input 1

```
Alda Gusmao Antonia Naves
Ismael Novais Silveira Da Silva De Melo Santos
Prince Uria Noite
Ismael Castelo Gorjao
Jeferson Vargas Capistrano
Layra Bogado
Kyara Ramalho Cavaco
Telmo Lagos Ourique
Ariele Lousa
Nicolae Chaves Fitas
Tania Nascimento Montenegro
Aayush Areosa Sintra
Gastao Saraiva Guilherme
Ariane
Lina Madureira Saloio
```

Example of Output 1

```
Aayush A. Sintra  
Alda G. A. Naves  
Ariane  
Ariele Lousa  
Gastao S. Guilherme  
Ismael C. Gorjao  
Ismael N. S. D. S. D. M. Santos  
Jeferson V. Capistrano  
Kyara R. Cavaco  
Layra Bogado  
Lina M. Saloio  
Nicolae C. Fitas  
Prince U. Noite  
Tania N. Montenegro  
Telmo L. Ourique
```