

Broken Data Base

A university course database has broken, one of the column has been completely deleted and that column had the names of the 3 students that belong to that group. It is known that in that course where only 3 students with the same surname and different last names and different id codes. You have the following data: "Monsalve" had the code 200410061010, "Silva" had 200120039010 and "Pineda" 199810043010. Your goal is to get back the data base integrity and print the surnames, last names and codes of the students one per line.

Input

As input read the name that had been deleted and now has been recovered by the IT personal of the university.

Output

It is expected that your problem prints as outputs one line per person replaced with the given data:

Name + space + Lastname1 + space + code1

Name + space + Lastname2 + space + code2

Name + space + Lastname3 + space + code3

Example:

Input:

Antonio

Output:

Antonio Silva 200120039010

Antonio Pineda 199810024010

Antonio Monsalve 200410061010