import java.util.\*;

class country

{ String name;

List<state> countrylist = new ArrayList<state>();

void setlist(state s)

{

countrylist.add(s);

}

List getlist()

{

return countrylist;

}

}

class state

{

String cname;

String sname;

void setname(String cname, String sname)

{

this.cname = cname;

this.sname = sname;

}

String getcname()

{

return cname;

}

String getsname()

{

return sname;

}

}

class sortcountry implements Comparator<state>

{

public int compare(state s1, state s2)

{

int cnamecom = s1.getcname().compareTo(s2.getcname());

int snamecom = s1.getsname().compareTo(s2.getsname());

return (snamecom==0)?cnamecom:snamecom;

}

}

public class Main {

public static void main(String[] args) {

// TODO Auto-generated method stub

country ct = new country();

Scanner sc = new Scanner(System.in);

String str;

for(int i=0;i<10;i++)

{ String ar[] = new String[2];

str = sc.next();

str.replace('|',' ');

ar = str.split(" ");

state st = new state();

st.setname(ar[0], ar[1]);

ct.setlist(st);

}

Collections.sort(ct.countrylist, new sortcountry());

for(state a : ct.countrylist)

System.out.println(a.getcname()+" "+a.getsname());

}

}

