#include <iostream>

#include <cstdio>

#include <set>

#include<cstring>

#include<sstream>

#include<map>

#include<vector>

#include<algorithm>

using namespace std;

string process(string x)

{

for(int i=0;i<x.length();i++)

x[i]=tolower(x[i]);

sort(x.begin(),x.end());

return x;

}

int main()

{

//freopen("input.txt","r",stdin);

map<string,int> \_map;

vector<string> words,ans;

string s;

while(cin>>s && s!="#")

{

words.push\_back(s);

s=process(s);

if(\_map.count(s)==0)

\_map[s]=0;

\_map[s]++;

}

for(int i=0;i<words.size();i++)

if(\_map[process(words[i])]==1)

ans.push\_back(words[i]);

sort(ans.begin(),ans.end());

for(int i=0;i<ans.size();i++)

cout<<ans[i]<<endl;

return 0;

}