#include<iostream>

#include<algorithm>

#include<map>

#include<cstring>

using namespace std;

int main()

{

multimap<char,string>m;

int n;

cin>>n;

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

{

char ch;

string s;

cin>>ch>>s;

m.insert(make\_pair(ch,s));

}

//to erase a ele

auto it=m.begin();

it++;

m.erase(it);

//lower bound

auto it2=m.lower\_bound('b'); // >=b

auto it3=m.upper\_bound('d'); //>d -> e

//iterate from lb to ub

for(auto it4=it2;it4!=it3;it4++)

{

cout<<it4->first<<": "<<it4->second<<endl;

}

//to find a particular ele and erase

auto f=m.find('c');

if(f->second=="cat"){

m.erase(f);

}

//print entire map

for(auto p:m){

cout<<p.first<<" "<<p.second<<endl;

}

}