public class Contestant {private String id; private String name; private String address; public String getId() { return id; }public void setId(String id) { this.id = id; }public String getName() { return name; }public void setName(String name) { this.name = name; }public String getAddress() { return address; }public void setAddress(String address) { this.address = address; } }

import java.util.List;

import java.util.Map;

import java.util.\*;

import java.util.stream.Stream;

import java.util.stream.Collectors;

public class ContestUtility {

private List<Contestant> ContestList;

public List<Contestant> getContestList(){

return this.ContestList;

}

public void setContestList(List<Contestant> ContestList)

{

this.ContestList=ContestList;

}

public Stream<Contestant> changeToStream() {

List<Contestant> list = getContestList();

return list.stream();

}

public List searchFromDetails(Stream<Contestant> stream1,char varString) {

Map<String,String>file = stream1.collect(Collectors.toMap(Contestant->Contestant.getId(),Contestant->Contestant.getName()));

List<String> l = new ArrayList<String>();

for (Map.Entry<String,String> entry : file.entrySet())

{

String s=Character.toString(varString);

if(entry.getValue().toLowerCase().startsWith(s.toLowerCase()))

{

l.add(entry.getKey());

}

}

return l;

}

}

import java.util.\*;

import java.util.stream.Stream;

public class UserInterface {

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter the number of contestant details to enter:");

int N=sc.nextInt();

if(N>0)

{

System.out.println("Enter the contestant details:");

List<Contestant> ContestList = new ArrayList<Contestant>();

ContestUtility C = new ContestUtility();

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

{

String arr=sc.next();

String[] word=arr.split("/");

String id=word[0];

String name = word[1];

String place=word[2];

Contestant c=new Contestant();

c.setId(id);

c.setName(name);

c.setAddress(place);

ContestList.add(c);

}

C.setContestList(ContestList);

Stream<Contestant>stream = C.changeToStream();

System.out.println("Enter character to search");

char alpha = sc.next().charAt(0);

List list=C.searchFromDetails(stream,alpha);

List<Contestant> Contest = C.getContestList();

if(list.size()!=0)

{

System.out.println("Filter the names which starts with "+alpha+":");

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

{

if(list.contains(Contest.get(i).getId()))

{

System.out.println("Id: "+Contest.get(i).getId()+", Name: "+Contest.get(i).getName());

}

}

}

else{

System.out.println("No record found");

}

}

else{

System.out.println("Invalid");

}

}

}