//信1605-2 牟松 学号:20163512

package ke5;

import java.io.\*;

import java.util.\*;

abstract class Subway

{

private String number; //线路号

private String name; //线路名称

private String information; //车站信息

public abstract void show();

public abstract void chaxun();

public abstract void goumai();

}

class FirstLineSubway extends Subway

{

public void show()

{

}

public void chaxun()

{

String a[]={"姣河大道","南村","石家庄东站","火炬广场","留村","白佛","朝晖桥"

,"谈固","北宋","体育场","博物院","北国商城", "平安大街","解放广场"

,"新百广场","烈士陵园","和平医院","长城桥","时光街","西王"};

String b[]={"市二中","新百广场","东里","槐安桥","西三教","石家庄站"};

boolean m=false; //判断起点是不是在1号线

boolean n=false; //判断终点是不是在1号线

int m1=0;

int n1=0;

System.out.print("输入起点站:");

String c=new Scanner(System.in).next();

System.out.print("输入终点站:");

String d=new Scanner(System.in).next();

System.out.println("路线:");

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

{

if(a[i].equals(c))

m=true;

if(a[i].equals(d))

n=true;

}

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

{

if(a[i].equals(c)) m1=i;

if(a[i].equals(d)) n1=i;

}

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

{

if(b[i].equals(c)) m1=i;

if(b[i].equals(d)) n1=i;

}

if(m&&n)

{

if(m1>n1)

{

for(int i=m1;i>=n1;i--)

System.out.println(a[i]);

}

else

{

for(int i=m1;i<=n1;i++)

System.out.println(a[i]);

}

}

if(!m&&!n)

{

if(m1>n1)

{

for(int i=m1;i>=n1;i--)

System.out.println(b[i]);

}

else

{

for(int i=m1;i<=n1;i++)

System.out.println(b[i]);

}

}

if(m!=n)

{

if(m)

{

if(m1>=14)

for(int i=m1;i>=14;i--)

System.out.println(a[i]);

if(m1<14)

for(int i=m1;i<=14;i++)

System.out.println(a[i]);

if(n1>1)

for(int i=2;i<=n1;i++)

System.out.println(b[i]);

if(n1<1)

for(int i=0;i>=n1;i--)

System.out.println(b[i]);

}

else

{

if(m1>1)

for(int i=m1;i>=1;i--)

System.out.println(b[i]);

if(m1<1)

for(int i=m1;i<=1;i++)

System.out.println(b[i]);

if(n1>=14)

for(int i=15;i<=n1;i++)

System.out.println(a[i]);

if(n1<14)

for(int i=13;i>=n1;i--)

System.out.println(a[i]);

}

}

}

public void goumai()

{

String a[]={"姣河大道","南村","石家庄东站","火炬广场","留村","白佛","朝晖桥"

,"谈固","北宋","体育场","博物院","北国商城", "平安大街","解放广场"

,"新百广场","烈士陵园","和平医院","长城桥","时光街","西王"};

String b[]={"市二中","新百广场","东里","槐安桥","西三教","石家庄站"};

boolean m=false; //判断起点是不是在1号线

boolean n=false; //判断终点是不是在1号线

int m1=0;

int n1=0;

int x=0; //储存乘客坐的站数

System.out.print("输入起点站:");

String c=new Scanner(System.in).next();

System.out.print("输入终点站:");

String d=new Scanner(System.in).next();

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

{

if(a[i].equals(c))

m=true;

if(a[i].equals(d))

n=true;

}

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

{

if(a[i].equals(c)) m1=i;

if(a[i].equals(d)) n1=i;

}

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

{

if(b[i].equals(c)) m1=i;

if(b[i].equals(d)) n1=i;

}

if(m==n)

x=Math.abs(m1-n1);

if(m!=n)

x=Math.abs(m1-14)+Math.abs(n1-1);

System.out.print("输入人数:");

int e=new Scanner(System.in).nextInt();

if(x/3!=0)

System.out.println("价格:"+(x/3+1)\*e);

else

System.out.println("价格:"+(x/3)\*e);

}

}

class ThirdLineSubway extends Subway

{

public void show() {}

public void chaxun() {}

public void goumai() {}

}

public class Example4 extends Subway

{

public void show() //遍历线路信息

{

System.out.println("1.1号线 3.3号线 0.全部");

int a=new Scanner(System.in).nextInt();

if(a==1)

show1();

if(a==3)

show2();

if(a==0)

{

show1();

show2();

}

}

public void chaxun() {}

public void goumai() {}

public void show1()

{

BufferedReader in=null;

try {

in=new BufferedReader(new FileReader("D:\\编译器\\ke5\\src\\ke5\\shijiazhuang.subway.txt"));

System.out.println("地铁1号线:");

String s=in.readLine();

StringTokenizer t;

while(s!=null)

{

t=new StringTokenizer(s,"|");

String a1=t.nextToken();

if(!a1.equals("1号线"))

{

s=in.readLine();

continue;

}

String a2=t.nextToken();

System.out.print(a2+" ");

s=in.readLine();

}

}

catch (IOException e) {

e.printStackTrace();

}

}

public void show2()

{

BufferedReader in=null;

try {

in=new BufferedReader(new FileReader("D:\\编译器\\ke5\\src\\ke5\\shijiazhuang.subway.txt"));

System.out.println("地铁3号线:");

String s=in.readLine();

StringTokenizer t;

while(s!=null)

{

t=new StringTokenizer(s,"|");

String a1=t.nextToken();

if(!a1.equals("3号线"))

{

s=in.readLine();

continue;

}

String a2=t.nextToken();

System.out.print(a2+" ");

s=in.readLine();

}

}

catch (IOException e)

{

e.printStackTrace();

}

}

public static void main(String[] args)

{

for(;;)

{

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println("欢迎乘坐石家庄地铁");

System.out.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.out.println(" 1.显示具体线路信息");

System.out.println(" 2.购票车票");

System.out.println(" 3.查询线路");

System.out.print("请选择:");

int a=new Scanner(System.in).nextInt();

if(a==1)

new Example4().show();

if(a==2)

new FirstLineSubway().goumai();;

if(a==3)

new FirstLineSubway().chaxun();;

}

}

}