```
Code:
class Planet{
String name;
String[] surfaceGasses;
int numberOfMoons;
boolean hasRings;
Planet(String name, String[] surfaceGasses, int numberOfMoons,boolean hasRings)
this.name=name;
this.surfaceGasses=surfaceGasses;
this.numberOfMoons=numberOfMoons;
this.hasRings=hasRings;
}
class Planets{
Planet[] planets;
Planets(Planet[] p)
planets=p;
int countOfMoons(){
int i;
int count=0;
for(i=0;i<planets.length;i++)</pre>
if(planets[i].hasRings)
count+=planets[i].numberOfMoons;
}
return count;
String gasOnMaxPlanets()
{
int i;
int j;
int maxc=Integer.MIN_VALUE;
String gas="";
HashMap<String,Integer> hm=new HashMap<String, Integer>();
for(i=0;i<planets.length;i++)</pre>
{
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Planet p=planets[i];
for(j=0;j<p.surfaceGasses.length;j++)</pre>
if(hm.containsKey(p.surfaceGasses[j]))
hm.put(p.surfaceGasses[j],hm.get(p.surfaceGasses[j])+1);
}
else
hm.put(p.surfaceGasses[j],1);
if(hm.get(p.surfaceGasses[j])>maxc)
gas=p.surfaceGasses[j];
maxc=hm.get(p.surfaceGasses[j]);
}
}
return gas;
Class
import java.util.*;
class Planet{
String name;
String[] surfaceGasses;
int numberOfMoons;
boolean hasRings;
Planet(String name, String[] surfaceGasses, int numberOfMoons,boolean hasRings)
this.name=name;
this.surfaceGasses=surfaceGasses;
this.numberOfMoons=numberOfMoons;
this.hasRings=hasRings;
class Planets{
Planet[] planets;
Planets(Planet[] p)
planets=p;
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```
int countOfMoons(){
int i;
int count=0;
for(i=0;i<planets.length;i++)</pre>
if(planets[i].hasRings)
count+=planets[i].numberOfMoons;
return count;
String gasOnMaxPlanets()
{
int i;
int j;
int maxc=Integer.MIN_VALUE;
String gas="";
HashMap<String,Integer> hm=new HashMap<String, Integer>();
for(i=0;i<planets.length;i++)</pre>
{
Planet p=planets[i];
for(j=0;j<p.surfaceGasses.length;j++)</pre>
if(hm.containsKey(p.surfaceGasses[j]))
hm.put(p.surfaceGasses[j],hm.get(p.surfaceGasses[j])+1);
}
else
hm.put(p.surfaceGasses[j],1);
if(hm.get(p.surfaceGasses[j])>maxc)
gas=p.surfaceGasses[j];
maxc=hm.get(p.surfaceGasses[j]);
return gas;
}
public class Main {
```

```
public static void main(String[] args) {
    System.out.println("Hello World!");
    String[] x=new String[]{"n","q","p"};
    Planet a=new Planet("xyx",x,5,true);
    x=new String[]{"h","n","q"};
    Planet b=new Planet("yux",x,2,false);
        x=new String[]{"n"};
    Planet c=new Planet("num",x,3,true);
    Planet[] y=new Planet[]{a,b,c};

Planets pp=new Planets(y);
    System.out.println( pp.countOfMoons());
    System.out.println( gasOnMaxPlanets());
}
```