**Shyaan Khan**

**public** **class** Person **implements** Comparable<Object>{

**private** String myName ; // name of the person

**private** **int** myAge; // person's age

**private** String myGender; // "M" for male, "F" for female

// constructor

**public** Person(String name, **int** age, String gender){

myName = name;

myAge = age;

myGender = gender;

}

**public** String getName(){

**return** myName;

}

**public** **int** getAge(){

**return** myAge;

}

**public** String getGender(){

**return** myGender;

}

**public** **void** setName(String name){

myName = name;

}

**public** **void** setAge(**int** age){

myAge = age;

}

**public** **void** setGender(String gender){

myGender = gender;

}

**public** String toString(){

**return** myName + ", age: " + myAge + ", gender: " +

myGender;

}

**public** **int** compareTo(Object o) {

Person p = (Person) o;

**int** n = 0;

**if**(getAge() < p.getAge())

{

n = -1;

}

**else** **if**(getAge() == p.getAge())

{

**if**(getName().compareTo(p.getName()) == -1)

{

n = -1;

}

**if**(getName().compareTo(p.getName()) == 0)

{

n=0;

}

**if**(getName().compareTo(p.getName()) == 1)

{

n=1;

}

}

**else** **if**(getAge() > p.getAge())

{

n = 1;

}

**return** n;

}

}

**public** **class** TestClass {

/\*\*

\* **@param** args

\*/

**public** **static** **void** main(String[] args) {

Person p1 = **new** Person("Tom", 20, "M");

Person p2 = **new** Person("Carol", 19, "F");

Person p3 = **new** Person("John", 12, "M");

//add your if statements, compareTo invocation

**if**(p1.compareTo(p2) == -1 && p1.compareTo(p3) == -1)

{

System.***out***.println(p1);

**if**(p2.compareTo(p3) == -1)

{

System.***out***.println(p2);

}

**else**

{

System.***out***.println(p3);

}

**if**(p3.compareTo(p2) == 1 && p3.compareTo(p1) == 1)

{

System.***out***.println(p3);

}

**else**

{

System.***out***.println(p2);

}

}

**if**(p2.compareTo(p1) == -1 && p2.compareTo(p3) == -1)

{

System.***out***.println(p2);

**if**(p1.compareTo(p3) == -1)

{

System.***out***.println(p1);

}

**else**

{

System.***out***.println(p3);

}

**if**(p3.compareTo(p1) == 1 && p3.compareTo(p2) == 1)

{

System.***out***.println(p3);

}

**else**

{

System.***out***.println(p1);

}

}

**if**(p3.compareTo(p1) == -1 && p3.compareTo(p2) == -1)

{

System.***out***.println(p3);

**if**(p1.compareTo(p2) == -1)

{

System.***out***.println(p1);

}

**else**

{

System.***out***.println(p2);

}

**if**(p2.compareTo(p1) == 1 && p2.compareTo(p3) == 1)

{

System.***out***.println(p2);

}

**else**

{

System.***out***.println(p1);

}

}

}

}

OUTPUT:

John, age: 12, gender: M

Carol, age: 19, gender: F

Tom, age: 20, gender: M

Tom, age: 5, gender: M

Carol, age: 22, gender: F

John, age: 23, gender: M

Carol, age: 2, gender: F

John, age: 6, gender: M

Tom, age: 15, gender: M