```
Client.java
 Apr 16, 14 9:31
                                                                           Page 1/1
package calcul;
import java.rmi.Naming;
public class Client {
   public static void main(String args[]) throws Exception {
        Geometrie obj = (Geometrie)Naming.lookup("//localhost/RmiServer");
        Point p1 = new PointImpl(0, 0);
        Point p2 = new PointImpl(4, 6);
        float d1 = obj.distance(p1);
        float d2 = obj.distance(p2);
        System.out.println(d1);
        System.out.println(d2);
        obj.deplace(p1, 1, 1);
obj.deplace(p2, -4, -6);
        d1 = obj.distance(p1);
        d2 = obj.distance(p2);
        System.out.println(d1);
        System.out.println(d2);
        /* Affiche
           0.0
           7.2111025
           1.4142135
           0.0
```

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Geometrielmpl.java
 Apr 16, 14 8:54
                                                                          Page 1/1
package calcul;
import java.rmi.RemoteException;
import java.rmi.server.UnicastRemoteObject;
import java.lang.Math;
import java.rmi.registry.*;
import java.rmi.Naming;
import java.rmi.server.RemoteServer;
public class GeometrieImpl extends UnicastRemoteObject implements Geometrie {
    public float distance(Point p) throws java.rmi.RemoteException {
        return (float)Math.sqrt(p.getX() * p.getX() + p.getY() * p.getY());
   public void deplace(Point p, float dx, float dy) throws java.rmi.RemoteExcep
tion {
        p.setX(p.getX() + dx);
       p.setY(p.getY() + dy);
    public GeometrieImpl() throws RemoteException {
        super(0);
    public static void main(String args[]) throws Exception {
        System.out.println("RMI server started");
        try { //special exception handler for registry creation
            LocateRegistry.createRegistry(1099);
            System.out.println("java RMI registry created.");
        } catch (RemoteException e) {
            //do nothing, error means registry already exists
            System.out.println("java RMI registry already exists.");
        //Instantiate RmiServer
        GeometrieImpl obj = new GeometrieImpl();
        // Bind this object instance to the name "RmiServer"
        Naming.rebind("//localhost/RmiServer", obj);
        System.out.println("PeerServer bound in registry");
```

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package calcul;

import java.rmi.Remote;
import java.rmi.RemoteException;

public interface Geometrie extends Remote {
    //calcul de la distance Ā l'origine
    float distance(Point p) throws java.rmi.RemoteException;

    //dÃ@place, c'est Ā dire modifie les coordonnÃ@es du point p
    void deplace(Point p, float dx, float dy) throws java.rmi.RemoteException;
}
```

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PointImpl.java
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                                                                       Page 1/1
package calcul;
import java.rmi.RemoteException;
import java.rmi.server.UnicastRemoteObject;
public class PointImpl extends UnicastRemoteObject implements Point {
   private float x;
    private float y;
    public float getX() throws RemoteException {
       return x;
    public float getY() throws RemoteException {
       return y;
    public void setX(float x) throws RemoteException {
       this.x = x;
    public void setY(float y) throws RemoteException{
       this.y = y;
    public PointImpl(float x, float y) throws RemoteException {
       this.x = x;
       this.y = y;
    public PointImpl() throws RemoteException {
       this.x = 0;
       this.y = 0;
```

```
Point.java
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 Apr 16, 14 9:07
package calcul;
import java.rmi.Remote;
import java.rmi.RemoteException;
public interface Point extends Remote {
    public float getX() throws RemoteException;
   public float getY() throws RemoteException;
   public void setX(float x) throws RemoteException;
    public void setY(float y) throws RemoteException;
```