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```
public abstract class Server {
   public abstract void communicate(String message, String from, String to);
}
import java.util.HashMap;
public class SNServer extends Server {
   private HashMap<String,Comunicator> comunicators = new
HashMap<String,Comunicator>();
   public void addComunicator(Comunicator c) {
       this.comunicators.put(c.getKey(), c);
   }
   public void removeComunicator(String key) {
       this.comunicators.remove(key);
   }
   @Override
   public void communicate(String message, String from, String to) {
       // TODO 自动生成的方法存根
       if(this.comunicators.get(to)!=null) {
           this.comunicators.get(to).getMessage(message,from);
       }
   }
}
public class SHDJServer extends Server {
   private HashMap<String,Comunicator> comunicators = new
HashMap<String,Comunicator>();
   public void addComunicator(Comunicator c) {
       this.comunicators.put(c.getKey(), c);
   }
   public void removeComunicator(String key) {
       this.comunicators.remove(key);
   }
   @Override
   public void communicate(String message, String from, String to) {
       // TODO 自动生成的方法存根
       if(this.comunicators.get(to)!=null) {
           this.comunicators.get(to).getMessage(message,from);
       }
   }
}
public class NJDJServer extends Server {
   private HashMap<String,Comunicator> comunicators = new
HashMap<String,Comunicator>();
```

```
public void addComunicator(Comunicator c) {
       this.comunicators.put(c.getKey(), c);
   public void removeComunicator(String key) {
       this.comunicators.remove(key);
   }
   @Override
   public void communicate(String message, String from, String to) {
       // TODO 自动生成的方法存根
       if(this.comunicators.get(to)!=null) {
           this.comunicators.get(to).getMessage(message,from);
       }
   }
}
public class Customer extends Comunicator {
   public Customer (String key){
       super(key);
   }
   @Override
   public void getMessage(String message,String from) {
       // TODO 自动生成的方法存根
       System.out.println("消费者收到 "+from +"的回复: "+message);
   }
   public void ask(String message,String to) {
       this.server.communicate(message, this.getKey(), to);
   }
}
public class SNCompany extends Comunicator {
   public SNCompany(String key) {
       super(key);
       // TODO 自动生成的构造函数存根
   }
   @Override
   public void getMessage(String message, String from) {
       // TODO 自动生成的方法存根
       System.out.println("苏宁公司收到 "+from +"的询问: "+message);
   public void replay(String message, String to) {
       this.server.communicate(message, this.getKey(), to);
   }
}
```

```
public class SHDJCompany extends Comunicator {
   public SHDJCompany(String key) {
       super(key);
       // TODO 自动生成的构造函数存根
   }
   @Override
   public void getMessage(String message, String from) {
       // TODO 自动生成的方法存根
       System.out.println("上海大金公司收到 "+from +"的消息: "+message);
   public void replay(String message,String to) {
       this.server.communicate(message, this.getKey(), to);
   }
}
public class NJDJCompany extends Comunicator {
   public NJDJCompany(String key) {
       super(key);
       // TODO 自动生成的构造函数存根
   }
   @Override
   public void getMessage(String message, String from) {
       // TODO 自动生成的方法存根
       System.out.println("南京大金公司收到 "+from +"的消息: "+message);
   public void replay(String message,String to) {
       this.server.communicate(message, this.getKey(), to);
   }
}
public class Engineer extends Comunicator {
   public Engineer(String key) {
       super(key);
       // TODO 自动生成的构造函数存根
   }
   @Override
   public void getMessage(String message,String from) {
       // TODO 自动生成的方法存根
       System.out.println("工程师收到 "+from +"的消息: "+message);
   }
   public void replay(String message,String to) {
       this.server.communicate(message, this.getKey(), to);
   }
```

```
}
public class test {
   public test() {
      // TODO 自动生成的构造函数存根
   }
   public static void main(String[] args) {
      // TODO 自动生成的方法存根
      Customer customer = new Customer("用户");
      SNCompany snCompany = new SNCompany("苏宁公司");
      SHDJCompany shdjCompany = new SHDJCompany("上海大金公司");
      NJDJCompany njdjCompany = new NJDJCompany("南京大金公司");
      Engineer engineer = new Engineer("工程师");
      SNServer snServer = new SNServer();
                                         //苏宁客服
      SHDJServer shdjServer = new SHDJServer(); //上海大金公司客服
      NJDJServer njdjServer = new NJDJServer(); //南京大金公司客服
      //设置中介者
      snCompany.setServer(snServer);
      shdjCompany.setServer(shdjServer);
      njdjCompany.setServer(njdjServer);
      engineer.setServer(njdjServer);
      System.out.println("1");
      //设置交流者
      snServer.addComunicator(customer);
      snServer.addComunicator(snCompany);
      shdjServer.addComunicator(customer);
      shdjServer.addComunicator(shdjCompany);
      njdjServer.addComunicator(customer);
      njdjServer.addComunicator(njdjCompany);
      njdjServer.addComunicator(engineer);
      //流程
      customer.setServer(snServer);
      customer.ask("我上次在苏宁买的大金公司的空调安装有问题怎么办", "苏宁公司
");
      snCompany.replay("我们苏宁公司不负责售后,请联系上海大金公司客服","用户
");
      customer.setServer(shdjServer);
      customer.ask("我上次在苏宁买的贵公司的空调安装有问题怎么办,苏宁平台让我来
找上海大金公司的客服", "上海大金公司");
      shdjCompany.replay("我们问了相关部门,你买的空调是苏州大金工厂生产的,请
```

联系南京大金公司客服", "用户");

customer.setServer(njdjServer);