



```

1 package Observer_pattern;
2
3 import java.util.ArrayList;
4
5 public abstract class Customer {
6
7     ArrayList<CustomerListener> listener = new ArrayList<CustomerListener>();
8     public void attach(CustomerListener l) {
9         listener.add(l);
10    }
11    public void dettach(CustomerListener l) {
12        listener.remove(l);
13    }
14    public abstract void catchAttention();
15
16 }
  
```

```

1 package Observer_pattern;
2
3 public class RudeCustomer extends Customer {
4
5
6     @Override
7     public void catchAttention() {
8         // TODO 自动生成的方法存根
9         for ( CustomerListener l: this.listener) {
10             l.response();
11         }
12     }
13     public void shout() {
14         System.out.println("顾客大声说话");
15         catchAttention();
16     }
17 }
  
```

```

1 package Observer_pattern;
2
3 public interface CustomerListener {
4     public void response();
5 }

```

---

```

1 package Observer_pattern;
2
3 public class Guard implements CustomerListener {
4
5     public void comeToSpot() {
6         System.out.println("保安赶到现场");
7     }
8     @Override
9     public void response() {
10         // TODO 自动生成的方法存根
11         this.comeToSpot();
12     }
13
14 }

```

---

```

1 package Observer_pattern;
2
3 public class Server implements CustomerListener {
4
5     public void beScared() {
6         System.out.println("客服受到惊吓");
7     }
8
9     @Override
10    public void response() {
11        // TODO 自动生成的方法存根
12        this.beScared();
13    }
14
15 }

```

---

```

package Observer_pattern;

public class test {

    public static void main(String[] args) {
        // TODO 自动生成的方法存根
        RudeCustomer customer = new RudeCustomer();
        Server server = new Server();
        Guard guard = new Guard();
        customer.attach(server);
        customer.attach(guard);
        customer.shout();
    }
}

```

控制台

<已终止> test (2) [Java 应用程序] C:\Program Files\Java\jdk-11.0.2\bin\javaw.exe (2019年10月14日 下午1:34:26)

顾客大声说话  
客服受到惊吓  
保安赶到现场