

```

package com.sxt.cooperation;

/**
 * 协作模型：生产者消费者模型实现方式二：信号灯法
 * 借助标志位
 * @author 江
 *
 */

public class CoTest02 {
    public static void main(String[] args) {
        Tv tv=new Tv();
        new Player(tv).start();
        new Watcher(tv).start();

    }
}

//演员
class Player extends Thread{
    Tv tv;
    public Player(Tv tv) {
        this.tv=tv;
    }
    @Override
    public void run() {
        for(int i=0;i<20;i++) {
            if(i%2==0) {
                tv.play("奇葩说");
            }else {
                tv.play("太污了，喝瓶立白洗洗嘴");
            }
        }
    }
}

//观众

```

```

class Watcher extends Thread{
    Tv tv;
    public Watcher(Tv tv) {
        this.tv=tv;
    }

    @Override
    public void run() {
        for(int i=0;i<20;i++) {
            tv.watch();
        }
    }
}

//电视
class Tv{
    String voice;
    //信号灯
    //T 表示演员表演    观众等待
    //F 表示观众观看    演员等待
    boolean flag=true;

    //表演
    public synchronized void play(String voice) {
        //演员等待
        if(!flag) {
            try {
                this.wait();
            } catch (InterruptedException e) {
                e.printStackTrace();
            }
        }
        System.err.println("表演了:"+voice);
        this.voice=voice;
        this.notifyAll();
        this.flag=false;
    }
}

```

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}
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```
//观看
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```
public synchronized void watch() {  
    if(flag) {  
        try {  
            this.wait();  
        } catch (InterruptedException e) {  
            e.printStackTrace();  
        }  
    }  
    System.err.println("听到了:"+voice);  
    this.notifyAll();  
    this.flag=true;  
}  
}
```