

内部类实现控制框架

2022.10.25 陈旭天2021100733

源码：

```

//this is 空调和温度类
public class HouseController extends Controller {
    private boolean light=false;
    //homework code block:
    private int temp = 25;

    private class TimeCnt extends Event{

        public TimeCnt(long eventTime) {
            super(eventTime);
        }

        @Override
        public void action() {
            temp -= 1;
            if(temp <= 22) {
                SuperAC ac = new SuperAC(getEventTime());
                ac.action();
                System.out.println(ac.description());
            }
        }

        @Override
        public String description() {
            return "the temperature of house is dropping...";
        }
    }

    private class SuperAC extends Event{

        public SuperAC(long eventTime) {
            super(eventTime);
        }

        @Override
        public void action() {
            temp = 25;
        }

        @Override
        public String description() {
            return "AIR Conditioner is working.";
        }
    }
}
// this is 主类
public static void main(String[] args) {
    long day=2400;//2400 milliseconds,I cannot wait 24hours
    HouseController hc=new HouseController();
    long currentTime=System.currentTimeMillis();
    for(int i=0;i<3;i++){

```



```
the temperature of house is dropping...
the temperature of house is dropping...
the temperature of house is dropping...
AIR Conditioner is working.
the temperature of house is dropping...
the temperature of house is dropping...
the temperature of house is dropping...
AIR Conditioner is working.
the temperature of house is dropping...
the temperature of house is dropping...
the temperature of house is dropping...
AIR Conditioner is working.
the temperature of house is dropping...
Light turned off
Light turned on
Light turned off
Light turned on
Light turned off
Done.
```