

Design a Traffic Controller System for a Junction

1. class:trafficLamp

```
private trafficLamp(string opposite, Boolean isLighted){

    }

    states:Boolean islighted, string opposite, string next
    string currentStatus=null;

behavior:void light(){
    this.lighted=true;
    system.out.println("this lamp is green, you can pass");

}

Void turnRed(){
    This.lighted=false;
    System.out.println("this lamp is red, please stop");

}
```

2. class:road

```
states:List<string>vechicles=new vechicles;
    string name;
    string[]direction=new
trafficLamp{ S2N","S2W","E2W","E2S","N2S","N2E","W2N","S2E","E2N",
    "N2W","W2S"}
```

3. class: lampController

```
states:currentLamp
```

behavior:

```
void controllamp(){  
    List<trafficLamp> trafficLampList=trafficLamp(stringOppsite, Boolean islighted)  
    For each(trafficLamp in trafficLampList){  
        trafficLamp.turnGreen;  
        Timer.counting;  
        trafficLamp.turnRed;  
    }  
}
```

4. driver

Status: direction

Behavior:

```
Void run(){  
};
```