

```
// Append observer  
// to list of observers
```

Subject

```
+ Subject() : void  
+ attach(observer) : void  
+ sendNotice() : void  
+ getState() : int  
+ setState(state : int) : void
```

```
// Iterate over list of  
// observers, calling  
// update() on each
```

NumberSubject

```
- state : int  
  
+ NumberSubject(state : int) : void  
+ getState() : int  
+ setState(state : int) : void
```

```
// Set the state  
// Call the sendNotice() method
```

subject observers

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Observer

```
+ Observer() : void  
+ update() : void  
+ getValue() : String
```

OctalObserver

```
- octValue : String  
  
+ OctalObserver(subject : Subject) : void  
+ update() : void  
+ getValue() : String
```

```
// Set octValue by  
// (a) calling Integer.toOctalString()  
// (b) Getting the state of the  
// subject using subject.getState()
```