

Bryce Lehen

model Observer

-- classes

```
class MagazineSubscription
  attributes
    subscriberCollection:String
```

```
  operations
    registerSubscriber()
    begin
    end
    unregisterSubscriber()
    begin
    end
    notifySubscriber()
    begin
    end
end
```

```
class NewspaperSubscription
```

```
  attributes
    subscriberCollection:String
  operations
    registerSubscriber() : NewspaperSubscription
    begin
      declare n:NewspaperSubscription;
      result := n;
    end
    unregisterSubscriber()
    begin
    end
    notifySubscriber()
    begin
    end
end
```

```
class MovieSubscription
```

```
  attributes
    subscriberCollection:String
  operations
    registerSubscriber()
    begin
    end
    unregisterSubscriber()
    begin
    end
    notifySubscriber()
    begin
    end
```

end

class Subscriber

attributes

operations

register(name:String)

begin

--declare n:NewspaperSubscription;

--n := self.newspaperSubscription.registerSubscriber();

end

unregister()

begin

end

notify()

begin

end

end

class SubscriberA < Subscriber

attributes

operations

end

class SubscriberB < Subscriber

attributes

operations

end

-- associations

aggregation magazine between

MagazineSubscription[0..1] role magazineSubscription

Subscriber[*] role magazineSubscriber

end

aggregation movie between

MovieSubscription[0..1] role movieSubscription

Subscriber[*] role movieSubscriber

end

aggregation newspaper between

NewspaperSubscription[0..1] role newspaperSubscription

Subscriber[*] role newspaperSubscriber

end

```

!create s1:SubscriberA
!create s2:SubscriberB
!create news1:NewspaperSubscription
!create movie1:MovieSubscription
!create magazine1:MagazineSubscription

```

```

!s1.register('newspaperSubscription')
--!news1.registerSubscriber()
!s1.register('movieSubscription')
--!movie1.registerSubscriber()
!insert (news1, s1) into newspaper
!insert (movie1, s1) into movie

```

```

!s2.register('movieSubscription')
--!movie1.registerSubscriber()
!s2.register('magazineSubscription')
--!magazine1.registerSubscriber()
!insert (movie1, s2) into movie
!insert (magazine1, s2) into magazine

```



