## Design Pattern

## Visitor

```
public interface IElement {
    int accept(IShoppingCartVisitor visitor);
public interface IShoppingCartVisitor {
    int visit(Book book);
    int visit(Fruit fruit);
public class Book implements IElement {
    private String name;
    private int price;
    private String isbnNumber;
    public Book(String name,int price,String isbnNumber) {
        this.name = name;
        this.price = price;
        this.isbnNumber = isbnNumber;
    public String getISBNNumber() {
        return isbnNumber;
    public void setISBNNumber(String isbnNumber) {
        this.isbnNumber = isbnNumber;
    public String getName() {
        return name;
    public void setName(String name) {
        this.name = name;
    public int getPrice() {
        return price;
    public void setPrice(int price) {
        this.price = price;
    public int accept(IShoppingCartVisitor visitor) {
        return visitor.visit(this);
}
```

```
public class Fruit implements IElement {
    private String name;
    private int price;
    public Fruit(String name,int price) {
        this.name = name;
        this.price = price;
    public String getName() {
       return name;
    public void setName(String name) {
       this.name = name;
    public int getPrice() {
       return price;
    public void setPrice(int price) {
       this.price = price;
    public int accept(IShoppingCartVisitor visitor) {
       return visitor.visit(this);
    }
}
public class ShoppingCart implements IShoppingCartVisitor {
    public int visit(Book book) {
        int cost = 0;
        if (book.getPrice() > 50)
            cost = book.getPrice() - 5;
        else
            cost = book.getPrice();
        System.out.println("book ISBN : " + book.getISBNNumber() +
                           " - cost = " + cost);
        return cost;
    }
    public int visit(Fruit fruit) {
        int cost;
        cost = fruit.getPrice();
        System.out.println("fruit name : " + fruit.getName() +
                           " - cost = " + cost);
       return cost;
    }
}
```