

```

package com.company;

public class Main {

    public static void main(String[] args) {

        Item bowTie = new Item("Bow Tie", 30);
        Item cookie = new Item("cookie", 2);
        Item shoe = new Item("shoe", 10);

        ItemOrder order1 = new ItemOrder(bowTie, 3);
        ItemOrder order2 = new ItemOrder(bowTie, 5);
        ItemOrder order3 = new ItemOrder(bowTie, 12);

        ShoppingCart myCart = new ShoppingCart();
        myCart.add(order1);
        myCart.add(order2);
        myCart.add(order3);
        System.out.println("Total cost of my cart is " + myCart.totalPrice());

        myCart.remove(order2);
        myCart.add(new ItemOrder(cookie, 6));
        System.out.println("Total cost of my cart is " + myCart.totalPrice()); // The
        cost didn't consider accumulative bulk items for all orders

    }
}

```

```

package com.company;

import java.util.ArrayList;
import java.util.NoSuchElementException;
/**
 * Created by zsu00 on 4/18/2017.
 */
public class ShoppingCart {
    private ArrayList<ItemOrder> cart;
    private double totalPrice;

    //Constructor
    public ShoppingCart(){
        cart = new ArrayList<ItemOrder>();
        totalPrice = 0;
    }

    public void add(ItemOrder order){
        cart.add(order);
        totalPrice = totalPrice + order.getCost();
    }

    public void remove(ItemOrder order){
        cart.remove(order);
        totalPrice = totalPrice - order.getCost();
    }

    //check if item is already in shopping cart
    public Boolean find(Item item){
        for(int i = 0; i < cart.size(); i++) {
            if (cart.get(i).getItem() == item) {

```

```

        return true;
    }
}
return false;
}

public double totalPrice(){
    return totalPrice;
}
}

```

```
package com.company;
```

```

/**
 * Created by zsu00 on 4/18/2017.
 */

```

```

public class ItemOrder {
    private int numOfItem;
    private Item item;

    public ItemOrder(Item item, int quantity){
        this.numOfItem = quantity;
        this.item = item;
    }

    public double getCost(){
        int discountNum = numOfItem/5;
        return numOfItem * item.getPrice() + discountNum * item.getPrice()/2;
    }

    public Item getItem(){
        return item;
    }
}

```

```
package com.company;
```

```

/**
 * Created by zsu00 on 4/18/2017.
 */

```

```

public class Item {
    private String itemName;
    private double price;

    public Item(String name, double price){
        this.itemName = name;
        this.price = price;
    }

    public String getItemName(){
        return this.itemName;
    }

    public double getPrice(){
        return this.price;
    }
}

```

