Listing 1.9 ShoppingCart.java

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/**
 * A ShoppingCart keeps track of a customer's purchases.
 */

public class ShoppingCart {

private int count; // number of Items in this ShoppingCart
private int cost;  // cost of Items in this ShoppingCart

/**
 * Construct a new empty ShoppingCart.
 */

public ShoppingCart() {
    count = 0;
    cost = 0;
}

/**
 * When this ShoppingCart is asked to add an Item to itself
 * it updates its count field and then updates its cost
 * field by sending the Item a getCost message.
 *
 * @param purchase the Item being added to this ShoppingCart.
 */

public void add(Item purchase) {
    count++; // Java idiom for count = count + 1;
    cost = cost + purchase.getCost();
}

/**
 * What happens when this ShoppingCart is asked how many
 * Items it contains.
 */

public int getCount() {
    return count;
}

/**
 * What happens when this ShoppingCart is asked the total
 * cost of the Items it contains.
 */

public int getCost() {
    return cost;
}