```
// joi/4/estore/ShoppingCart.java
//
//
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/**
 * A ShoppingCart keeps track of a customer's purchases.
 *
 * @see EStore
 * @version 4
 */

public class ShoppingCart
{
    /// replace these two fields by a single ArrayList
    private int count; // number of Items in this ShoppingCart
    private int cost;  // total cost of Items in this ShoppingCart

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

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

    /**
     * Add an Item to this ShoppingCart.
     *
     * @param item the Item to add.
     */

    public void addItem( Item item )
    {
        /// this code just keeps track of the totals
        /// replace it with code that adds the item to the list
        count++;
        this.cost += item.getCost(); // Java idiom: a += b means a = a +
    }

    /**
     * Return an Item from this ShoppingCart.
     *
     * @param item the Item to return.
     */

    public void returnItem( Item item )
    {
        /// look through the list looking for Item
        /// remove it if it's there
    }

    /**
     * What happens when this ShoppingCart is asked how many
```



```
     * Items it contains.
     *
     * @return the number of items in this ShoppingCart.
     */

    public int getCount()
    {
        /// get this information from the list,
        /// since the count field no longer exists
        return count;
    }

    /**
     * What happens when this ShoppingCart is asked the total
     * cost of the Items it contains.
     *
     * @return the total cost of the items in this ShoppingCart.
     */
    public int getCost()
    {
        /// get this information from the list,
        /// since the cost field no longer exists
        return cost;
    }

    /**
     * Write the contents of this ShoppingCart to a Terminal.
     *
     * @param t the Terminal to use for output.
     */

    public void showContents( Terminal t)
    {
        /// work to do here ...
        t.println("  [sorry, can't yet print ShoppingCart contents]");
    }
}
```