

```
1 package murach.business;
2
3 import java.io.Serializable;
4
5
6 public class Cart implements Serializable {
7
8     private ArrayList<LineItem> items;
9
10    public Cart() {
11        items = new ArrayList<LineItem>();
12    }
13
14    public ArrayList<LineItem> getItems() {
15        return items;
16    }
17
18    public int getCount() {
19        return items.size();
20    }
21
22    public void addItem(LineItem item) {
23        String code = item.getProduct().getCode();
24        int quantity = item.getQuantity();
25        for (LineItem cartItem : items) {
26            if (cartItem.getProduct().getCode().equals(code)) {
27                cartItem.setQuantity(quantity);
28                return;
29            }
30        }
31        items.add(item);
32    }
33
34    public void removeItem(LineItem item) {
35        String code = item.getProduct().getCode();
36        for (int i = 0; i < items.size(); i++) {
37            LineItem lineItem = items.get(i);
38            if (lineItem.getProduct().getCode().equals(code)) {
39                items.remove(i);
40                return;
41            }
42        }
43    }
44 }
```