

Product.java

```
1 package model;
2 import javax.xml.bind.annotation.XmlAttribute;
3
4
5
6 @XmlRootElement(name="item")
7 public class Product {
8     private String number;
9     private String name;
10    private int qty;
11
12    public Product() {
13    }
14
15    public Product(String number, String name, int qty) {
16        this.setNumber(number);
17        this.setName(name);
18        this.setQty(qty);
19    }
20
21    @XmlAttribute(name="number")
22    public String getNumber() {
23        return number;
24    }
25
26    public void setNumber(String number) {
27        this.number = number;
28    }
29
30    @XmlElement(name="name")
31    public String getName() {
32        return name;
33    }
34
35    public void setName(String name) {
36        this.name = name;
37    }
38
39    @XmlElement(name="quantity")
40    public int getQty() {
41        return qty;
42    }
43
44    public void setQty(int qty) {
45        this.qty = qty;
46    }
47 }
```

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```
47
48     public synchronized void increaseQty() {
49         this.qty++;
50     }
51
52     public synchronized void increaseQty(int qty) {
53         this.qty += qty;
54     }
55
56     @Override
57     public String toString() {
58         return String.format("{ Number: %s | Name: %s | Quantity:
59 %s }\n", number, name, qty);
60     }
61
62     @Override
63     public boolean equals(Object obj) {
64         if (this == obj) return true;
65         if (obj == null) return false;
66         if (!(obj instanceof Product)) return false;
67
68         Product other = (Product) obj;
69         if (!this.number.equals(other.number)) {
70             return false;
71         }
72         return true;
73     }
74 }
75
```