

**//Name: Yashas Ravi**

**//CookieOrder**

```
package StufafterArrays;
```

```
public class CookieOrder {

    private String cookieVariety;
    private int boxes;
    public CookieOrder (String variety, int numBoxes) {
        cookieVariety = variety;
        boxes = numBoxes;
    }
    public String getVariety() {
        return this.cookieVariety;
    }
    public int getNumBoxes() {
        return this.boxes;
    }
    public String toString() {
        return cookieVariety + " " + boxes;
    }

}
```

**//MasterOrder**

```
package StufafterArrays;
```

```
import java.util.ArrayList;
```

```
public class MasterOrder {

    private ArrayList<CookieOrder> orders;

    public MasterOrder() {
        orders = new ArrayList<CookieOrder> ();
    }

    public void addOrder (CookieOrder theOrder) {
        orders.add(theOrder);
    }

}
```

```

}

public int getTotalBoxes() {
    int box = 0;
    for (int i = 0; i < orders.size(); i++) {
        box += orders.get(i).getNumBoxes();
    }
    return box;
}

public int removeVariety (String cookieVar) {
    int box2 = 0;
    for (int j = 0; j < orders.size(); j++) {
        if (orders.get(j).getVariety().equals(cookieVar)) {
            box2+=orders.get(j).getNumBoxes();
            orders.remove(j);
            j--;
        }
    }
    return box2;
}

public String toString() {

    String b = " ";
    for (int k = 0; k < orders.size(); k++) {
        b += orders.get(k) + " ";
    }
    return b;
}
}

```

## //Tester

```
package StufafterArrays;
```

```
public class CookieTester {

    public static void main(String[] args) {
        // TODO Auto-generated method stub
        MasterOrder myOrder = new MasterOrder();
        System.out.println ("There are " + myOrder.getTotalBoxes() + " boxes of cookies" );
        myOrder.addOrder (new CookieOrder ("ThinMints", 1));
        myOrder.addOrder (new CookieOrder ("Tagalongs", 2));
        myOrder.addOrder (new CookieOrder ("ThinMints", 10));
        myOrder.addOrder (new CookieOrder ("Samoas", 4));
        myOrder.addOrder (new CookieOrder ("ShortBread", 5));
        myOrder.addOrder (new CookieOrder ("Samoas", 5));
        myOrder.addOrder (new CookieOrder ("ShortBread", 7));
        myOrder.addOrder (new CookieOrder ("ShortBread", 3));
        myOrder.addOrder (new CookieOrder ("Tagalongs", 6));
        System.out.println ("There are " + myOrder.getTotalBoxes() + " boxes of cookies" );
        System.out.println ("Complete List - " + myOrder);
        System.out.println (myOrder.removeVariety ("Samoas") + " Samoas removed: " );
        System.out.println (myOrder.removeVariety("Tagalongs") + " Tagalongs removed. ");
        System.out.println (myOrder.removeVariety("ShortBread")+ " ShortBread removed. ");
        System.out.println (myOrder.removeVariety ("Trefoils") + " Trefoils removed. ");
        System.out.println ("There are " + myOrder.getTotalBoxes() + " boxes of cookies" );
        System.out.println ("Complete list: " + myOrder);
    }
}
```

## //Console

There are 0 boxes of cookies

There are 43 boxes of cookies

Complete List - ThinMints 1 Tagalongs 2 ThinMints 10 Samoas 4 ShortBread 5 Samoas 5 ShortBread 7 ShortBread 3 Tagalongs 6

9 Samoas removed:

8 Tagalongs removed.

15 ShortBread removed.

0 Trefoils removed.

There are 11 boxes of cookies

Complete list: ThinMints 1 ThinMints 10