

Array list

```
import java.util.List;
import java.util.ArrayList;
import java.util.Set;
import java.util.HashSet;

class Order {
    private int orderId;
    private List<String> itemNames;
    private boolean cashOnDelivery;

    public Order(int orderId, List<String> itemNames, boolean cashOnDelivery) {
        this.orderId = orderId;
        this.itemNames = itemNames;
        this.cashOnDelivery = cashOnDelivery;
    }

    public int getOrderId() {
        return orderId;
    }

    public void setOrderId(int orderId) {
        this.orderId = orderId;
    }

    public List<String> getItemNames() {
        return itemNames;
    }
}
```

```
}
```

```
public void setItemNames(List<String> itemNames) {  
    this.itemNames = itemNames;  
}
```

```
public boolean isCashOnDelivery() {  
    return cashOnDelivery;  
}
```

```
public void setCashOnDelivery(boolean cashOnDelivery) {  
    this.cashOnDelivery = cashOnDelivery;  
}
```

```
@Override
```

```
public String toString() {  
    return "Order Id: "+getOrderId()+", Item names: "+getItemNames()+", Cash on delivery:  
"+isCashOnDelivery();  
}  
}
```

```
class Tester {
```

```
public static List<String> getItems(List<Order> orders) {  
    Set<String> uniqueItems = new HashSet<>();  
  
    for (Order order : orders) {
```

```

        List<String> items = order.getItemNames();
        uniqueItems.addAll(items);
    }

    return new ArrayList<>(uniqueItems);
}

public static void main(String[] args) {
    List<Order> orders = new ArrayList<Order>();

    List<String> items1 = new ArrayList<String>();
    items1.add("FriedRice");
    items1.add("Pasta");
    items1.add("Tortilla");
    orders.add(new Order(101, items1, true));

    List<String> items2 = new ArrayList<String>();
    items2.add("Pizza");
    items2.add("Pasta");
    orders.add(new Order(102, items2, true));

    List<String> items3 = new ArrayList<String>();
    items3.add("Burger");
    items3.add("Sandwich");
    items3.add("Pizza");
    orders.add(new Order(103, items3, true));
}

```

```
List<String> items = getItems(orders);  
System.out.println("List of Items:");  
for (String item : items) {  
    System.out.println(item);  
}  
}  
}
```

```
C:\Users\student\Desktop>javac Tester3.java
```

```
C:\Users\student\Desktop>java Tester3
```

```
List of Items:
```

```
Pizza
```

```
Burger
```

```
Sandwich
```

```
Tortilla
```

```
FriedRice
```

```
Pasta
```