Solution [set -A]

```
public class Orderfood{
  public int foodCount = 0;
  public int capacity;
  public String foodList[];

  public void setfoodCapacity(int c){
    foodList = new String [c];
    capacity = c;
  }

  public void addfood(String b){
    if (foodCount<capacity){
      foodList[foodCount] = b;
      foodCount+=1;
      System.out.println( b +" is added to the food list");
    }
    else{
      System.out.println("Oops! You've reached the limit. You can't add more than "+capacity+"
items");
    }
  }

  public void addfood(String b, int q){
    if (foodCount+q <=capacity){
      for (int i=0; i < q; i++){
        foodList[foodCount+i] = b;
        System.out.println( b+" is added to the list");
      }
      foodCount+=q;
     }
    else{
      System.out.println("Oops! You've reached the limit. You can't add more than "+capacity+"
items");
    }
  }
  public void printDetail(){
    System.out.println("Total items: "+foodCount);
    System.out.println("Maximum Capacity: "+capacity);
    System.out.println("Your Food list: ");
    for (int i = 0; i<capacity; i++){
      if (foodList[i]!=null){
        System.out.println(foodList[i]);
      }
    }
  }
}
```

Rubric:

Class name and method declarations	**1**
Proper Instance Variables	**1.5**
setfoodCapacity() method execution	**1**
Addfood() with two parameters : → [1.5] check proper condition and increment → [1] insert value in the array → [1] print properly	**3.5**
Addfood() with one parameters: → [1.5] check proper condition and print properly	**1.5**
printDetail: → [1] Check the condition for loop → [0.5] print all the necessary info properly	**1.5**
TOTAL	**10**

Solution [set -B]

```
public class ProductCart{
  public int productCount = 0;
  public int capacity;
  public String productList[];

  public void setproductCapacity(int c){
    productList = new String [c];
    capacity = c;
  }

  public void addProduct(String b){
    if (productCount<capacity){
      productList[productCount] = b;
      productCount+=1;
      System.out.println( b +" is added to the list");
    }
    else{
      System.out.println("Limit exceeded. You can't add more than "+capacity+" items");
    }
  }

  public void addProduct(String b, int q){
    if (productCount+q <= capacity){
      for (int i=0; i < q; i++){
        productList[productCount+i] = b;
        System.out.println( b+" is added to the list");
      }
      productCount+=q;

    }
    else{
      System.out.println("Limit exceeded. You can't add more than "+capacity+" items");
    }
  }
  public void printDetail(){
    System.out.println("Total items: "+productCount);
    System.out.println("Maximum Capacity: "+capacity);
    System.out.println("Your product list: ");
    for (int i = 0; i<capacity; i++){
      if (productList[i]!=null){
        System.out.println(productList[i]);
      }
    }
  }
}
```

Rubric:

Class name and method declarations	**1**
Proper Instance Variables	**1.5**
setproductCapacity() method execution	**1**
Addproduct() with two parameters : → [1.5] check proper condition and increment → [1] insert value in the array → [1] print properly	**3.5**
Addproduct() with one parameters: → [1.5] check proper condition and print properly	**1.5**
printDetail: → [1] Check the condition for loop → [0.5] print all the necessary info properly	**1.5**
TOTAL	**10**