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Question 1 [C02] [10 Points]

Design the **ProductCart** class so that the following Tester class generates the expected output.

Tester Code	Expected Output
<pre> public class Tester{ public static void main(String[] args) { ProductCart a1 = new ProductCart(); a1.setproductCapacity(3); System.out.println("=====[1]===="); a1.addProduct("Mouse"); System.out.println("=====[2]===="); a1.printDetail(); System.out.println("=====[3]===="); a1.addProduct("Keyboard",2); a1.addProduct("Headphone"); a1.addProduct("Graphics Card"); System.out.println("=====[4]===="); a1.printDetail(); ProductCart a2 = new ProductCart(); a2.setproductCapacity(6); System.out.println("=====[5]===="); a2.addProduct("Motherboard"); a2.addProduct("Mouse"); System.out.println("=====[6]===="); a2.printDetail(); System.out.println("=====[7]===="); a2.addProduct("Monitor",6); a2.addProduct("Webcam",3); a2.addProduct("Speaker"); System.out.println("=====[8]===="); a2.printDetail(); } } </pre>	<pre> =====[1]==== Mouse is added to the list =====[2]==== Total items: 1 Maximum Capacity: 3 Your product list: Mouse =====[3]==== Keyboard is added to the list Keyboard is added to the list Limit exceeded. You can't add more than 3 items Limit exceeded. You can't add more than 3 items =====[4]==== Total items: 3 Maximum Capacity: 3 Your product list: Mouse Keyboard Keyboard =====[5]==== Motherboard is added to the list Mouse is added to the list =====[6]==== Total items: 2 Maximum Capacity: 6 Your product list: Motherboard Mouse =====[7]==== Limit exceeded. You can't add more than 6 items Webcam is added to the list Webcam is added to the list Webcam is added to the list Speaker is added to the list =====[8]==== Total items: 6 Maximum Capacity: 6 Your product list: Motherboard Mouse Webcam Webcam Webcam Speaker </pre>

