

Question 1 [10 Points]

Implement the **appleStoreBD** class so that it generates the given output.

- There can be only two types products in the store: **iPhone** and **MacBook**
- A specific branch can only have a maximum of 10 units per product.
- **clearBranch()** method empties the branch and sends emptied items back to the USA, therefore decreases the total stock of BD as well.

Driver Code	Output
<pre> public class AppleTester { public static void main(String[] args) { System.out.println(appleStoreBD.allInfo()); System.out.println("=====1====="); appleStoreBD branch1 = new appleStoreBD(8, 6); System.out.println("=====2====="); branch1.branchDetails(); System.out.println("=====3====="); branch1.restock("MacBook", 1); System.out.println("=====4====="); branch1.restock("iPhone", 2); System.out.println("=====5====="); branch1.branchDetails(); System.out.println("=====6====="); branch1.restock("MacBook", 4); System.out.println("=====7====="); branch1.branchDetails(); System.out.println("=====8====="); System.out.println(appleStoreBD.allInfo()); appleStoreBD branch2 = new appleStoreBD(7, 2); branch2.restock("iPhone", 5); System.out.println("=====9====="); branch2.restock("iPad", 8); System.out.println("=====10====="); branch2.branchDetails(); System.out.println("=====11====="); System.out.println(appleStoreBD.allInfo()); System.out.println("=====12====="); branch2.clearBranch(); System.out.println("=====13====="); branch2.branchDetails(); branch1.branchDetails(); System.out.println("=====14====="); System.out.println(appleStoreBD.allInfo()); } } </pre>	<pre> Total number of branch(s): 0 Total iPhone left: 0, Total MacBook left: 0 =====1===== =====2===== Branch 1 Stock: iPhone left: 8, MacBook left: 6 =====3===== =====4===== =====5===== Branch 1 Stock: iPhone left: 10, MacBook left: 7 =====6===== Cannot stock over 10 units of a product per branch. =====7===== Branch 1 Stock: iPhone left: 10, MacBook left: 7 =====8===== Total number of branch(s): 1 Total iPhone left: 10, Total MacBook left: 7 Cannot stock over 10 units of a product per branch. =====9===== Cannot stock iPad =====10===== Branch 2 Stock: iPhone left: 7, MacBook left: 2 =====11===== Total number of branch(s): 2 Total iPhone left: 17, Total MacBook left: 9 =====12===== All items of Branch 2 were sent back to USA. =====13===== Branch 2 Stock: iPhone left: 0, MacBook left: 0 Branch 1 Stock: iPhone left: 10, MacBook left: 7 =====14===== Total number of branch(s): 2 Total iPhone left: 10, Total MacBook left: 7 </pre>