Quiz 7		
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Q1. [10 marks] The main method in class Cafe creates a Patron object and invokes its drink method for a list of drinks. The Java API documentation for class Patron is shown below. Constructor, getters and setters are not shown for brevity sake.

- Java API Documentation -

public class Patron

public void drink(String beverage)

throws AllergyException, SickException, FaintException

Drink the beverage.

Parameters:

beverage - String object

Throws:

AllergyException - Thrown when the person has an allergy reaction to the drink.

SickException - Thrown when the person feels sick due to the drink.

FaintException - Is a RuntimeException and thrown when the person faints.

Read the main method of class Cafe on the next page. Complete it such that

- 1. For each beverage in beverageList, call the drink() method of cindy (Patron object).
- 2. If there is an allergy reaction (AllergyException),
 - a. Print "Allergic to <beverage>". Note: Replace <beverage> with the actual beverage drank.
 - b. Continue with the next beverage.
- 3. If there is a seizure (SickException), print "Sick!" and stop drinking immediately.
- 4. Do NOT catch FaintException.
- 5. At the end of the program, ALWAYS print "Bye bye" regardless of any Exception.

Sample output:

Bye bye

D:\> java Cafe
Drink Tea
Drink Coffee
Allergic to Coffee
Drink Beer
Sick!

```
Answer:
import java.util.ArrayList;
public class Cafe {
    public static void main(String[] args) {
        Patron cindy = new Patron("Cindy");
        ArrayList<String> beverageList = new ArrayList<>();
        beverageList.add("Tea");
        beverageList.add("Coffee"); // Cindy is allergic to coffee
        beverageList.add("Beer"); // Cindy will feel sick if she drinks beer
        beverageList.add("Milk");
        try {
            // For each beverage in beverageList
            for (int i=0; i < beverageList.size(); i++) {</pre>
                 // cindy drinks the beverage
                 String beverage = beverageList.get(i);
                 try {
                      cindy.drink(beverage);
                 } catch (AllergyException e) {
                      System.out.println("Allergic to " + beverage);
            }
        } catch (SickException e) {
            System.out.println("sick");
        } finally {
            System.out.println("Bye bye");
    }
```