Quiz 6

Name:	
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1. Given the following classes:

```
// in Car.java

public class Car {

   public Car() {
       System.out.println("Car");
   }

   public Car(String name) {
       System.out.println("Car " + name);
   }

   public void doSomething() {
       System.out.println("apple");
   }
}
```

```
// in SmartCar.java

public class SmartCar extends Car {
    public SmartCar() {
        System.out.println("SmartCar");
    }

    public SmartCar(String name) {
        System.out.println("SmartCar " + name);
    }

    public void doSomething() {
        System.out.println("orange");
    }
}
```

Which is the output for the following code?

```
public class Test {
  public static void main(String[] args) {
    Car c1 = new SmartCar();
    Car c2 = new Car();

    c1.doSomething();
    c2.doSomething();
  }
}
```

2. Given the following program that will compile successfully.

```
public class Q2 {
   public static void doX(int x) {
       try {
           doY(x);
       } catch (Exception e) {
           System.out.println("orange");
   }
   public static void doY(int x) {
       try {
           doZ(x);
       } finally {
           System.out.println("apple");
       }
   }
   public static void doZ(int x) {
       if (x < 4) {
           throw new VirusException("COVID-19");
       }
   }
   public static void main(String[] args) {
       try {
           doX(3);
       } catch (VirusException e) {
           System.out.println(e.getMessage());
       }
   }
}
```

- (A) Is VirusException is a checked or unchecked exception?
- (B) What is the output for this program?
- (C) Implement the VirusException class.

Answer Sheet

Q1	
Car	
SmartCar	
Car	
orange	
apple	
L	
Q2(A)	
apple orange	
orange and the second of the s	
Q2(B)	
Unchecked Exception	
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```
Q2(C)
public class VirusException extends RuntimeException {
  public VirusException(String name) {
       super(name);
```