Quiz 8 Name: \_\_\_\_\_

1. Given the following classes:

```
public class FoodPoisoningException extends RuntimeException {
   public FoodPoisoningException(String message) {
      super(message);
      System.out.println("apple");
   }
}
```

```
public class NoCurryPokException extends Exception {
   public NoCurryPokException(String message) {
       super(message);
       System.out.println("grape");
   }
}
```

```
import java.util.Scanner;
public class CurryPokApp {
  private static int CURRYPOK NUMBER = 13;
  public static void run() {
       Scanner sc = new Scanner(System.in);
       System.out.print("Enter a curry pok amount> ");
       int amount = sc.nextInt(); //assume enters 20
       try {
           getCurryPok(amount);
           System.out.println("yum");
       } catch (NoCurryPokException e) {
           System.out.println(e.getMessage());
       } finally {
           System.out.println("pear");
       System.out.println("durian");
   public static void main(String[] args) {
       try {
           run();
       } catch (Throwable e) {
           System.out.println("kiwi");
   }
```

```
public static void getCurryPok(int amount) throws NoCurryPokException {
    try {
        if (amount > CURRYPOK_NUMBER) {
            throw new NoCurryPokException("not enough");
        }
        if (amount == CURRYPOK_NUMBER) {
            throw new FoodPoisoningException("poison");
        }
    } finally {
        System.out.println("close door");
    }
}
```

2. **[ 2 marks ]** What is the output of the program if the user enters 20 for the amount? **Answer:** 

```
C:\quiz>java CurryPokApp
Enter a curry pok amount> 20
```

[ 2 marks ] What is the output of the program if the user enters 13 for the amount? Answer:

```
C:\quiz>java CurryPokApp
Enter a curry pok amount> 13
```

## 3. **[ 4 marks ]** Given the following class:

```
public class Student {
    private int age;

public Student(int age) {
        this.age = age;
    }

public int getAge() {
        return age;
    }

public void setAge(int age) {
        this.age = age;
    }

@Override
    public String toString() {
        return "" + age;
    }
}
```

## Draw the memory state diagram for the following program at the point of time when the program reaches line 7:

```
1
    public class Quiz {
2
       public static void doMagic(Student s1, Student s2) {
3
            Student temp = s1;
            s1 = s2;
4
5
            s2 = temp;
6
            s2.setAge(3);
7
            //How does the memory state diagram look here?
8
        }
9
10
       public static void main(String[] args) {
11
            Student s1 = new Student(1);
12
            Student s2 = new Student(2);
13
            doMagic(s1, s2);
14
        }
15
     }
```

Answer:	
Allower:	