

Review the Composition2 demo program and answer the following questions.

1. What type of anonymous object is being instantiated in the following statement?

```
Student student1 = new Student(new Name("Jane", "Doe"), 10, schedule);
```

2. Is there a default constructor in the Student class?

3. What is returned by the getSchedule method? In other words, what is the "return type" of the getSchedule method?

4. Would an error occur with the following statement in the client program? If so, explain.

```
Student student2 = new Student(new Name("John", "Smith"), schedule, 9);
```

5. Would an error occur with the following code segment in the client program? If so, explain.

```
int gradeLevel = 11;  
String course1 = "Gym";  
String schedule2 = {course1, "History", "Physics", "Health"};  
String first = "Julia";  
Student student3 = new Student(new Name(first, "Hoover"), gradeLevel, schedule2);
```

6. What is displayed by the for loop in the client program?

7. What does `student1.getSchedule().length` simplify to?

8. What does `student1.getSchedule()[3].length()` simplify to?

9. What does `student1.getSchedule()[0]` simplify to?

10. What does `student1.getSchedule()[2].substring(2)` simplify to?

11. Write out a modifier method for the mySchedule instance field in the Student class

12. On the back of this paper, draw a diagram similar to the one that is found in the Composition lecture notes that illustrates the special relationship between the Student and Name classes.