

Multiple-Choice Questions:

1. T or F? Coupling and cohesion are closely linked in that as one increases, so does the other.
 - a. True
 - b. False

2. Given classes *A* and *B*, which of the following is not a common type of coupling in object-oriented software?
 - a. *A* is a direct or an indirect subclass of *B*
 - b. A method parameter or local variable in *A* references *B*
 - c. *A* has an instance variable that refers to *B*
 - d. *A* invokes methods of *B*
 - e. None of the above

3. What is the typical relationship between coupling and cohesion?
 - a. There is no relationship between coupling and cohesion.
 - b. As cohesion increases, coupling increases.
 - c. As cohesion increases, coupling decreases.

4. [2pts] All else being equal, which is more desirable?
 - a. Higher cohesion and higher coupling
 - b. Higher cohesion and lower coupling
 - c. Lower cohesion and lower coupling
 - d. Lower cohesion and higher coupling
 - e. None of the above is more desirable than the others.

Solutions:

1. b (as coupling increases, cohesion decreases)
2. e
3. c
4. b

Multiple-Choice Questions:

1. SRP is short for:
 - a. Software Requirements Process
 - b. Sequential Response Protocol
 - c. Server Receive Packet
 - d. Single Responsibility Principle
 - e. None of the above

2. Which of the following best exemplifies SRP?
 - a. Writing test code before you write the code under test
 - b. Creating mock objects to stand in for other objects in the system
 - c. Dividing each user story to be built next iteration into tasks and assigning each task to a developer on the team
 - d. For objects of a class *C*, creating a DAO (which knows how to read/write *C* objects to a database) instead of putting all that database accessing logic in the *C* class
 - e. Collecting feedback from the customer at the end of each iteration, instead of waiting until the system is finally delivered

Solution:

1. d

2. d