quiz no solution w3

Question 3

0 / 1 point

requests.

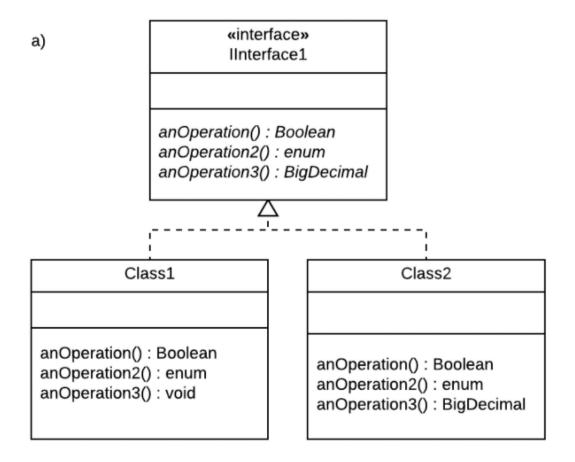
Question 1 What does MVC Stand for? Use spaces between each word, no upper case letters, and no punctuation. [model view controller] Correct Correct! The model view controller pattern is important for user-interface applications, and it previews some software architectures that we will talk about in the next course. Question 2 Select the **two** elements of the open/closed principle: 0 / 1 point ☐ Open for modification ☐ Open for extension ☐ Open for maintenance □ Closed for modification ☐ Closed for extension. ☐ Closed for maintenance.

quiz no solution w3

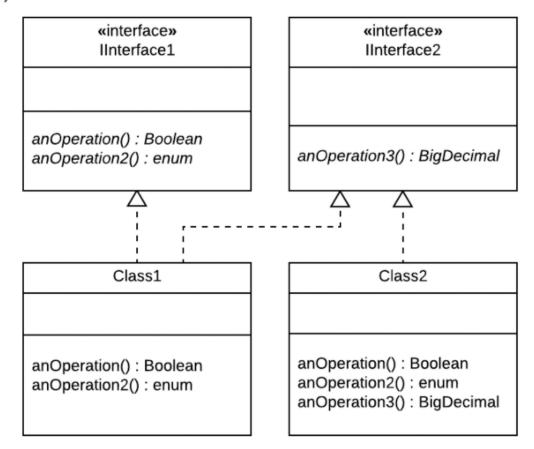
What is the best description of the Dependency Inversion principle?

☐ Client objects are dependent on a service interface that directs their

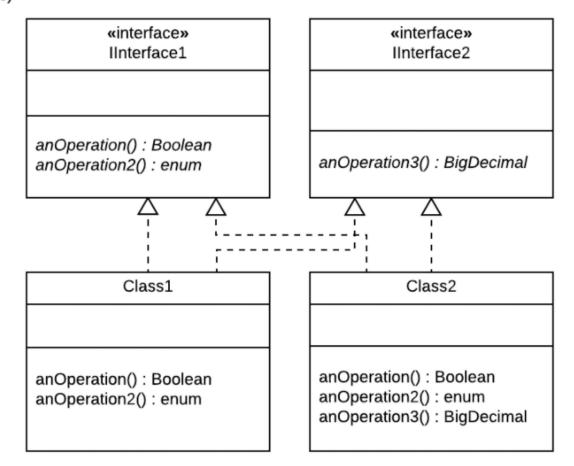
 Service objects subscribe to their prospective client objects as Observers, watching for a request.
☐ Client objects depend on an Adaptor Pattern to interface with the rest of the system.
☐ Client objects depend on generalizations instead of concrete objects.
Question 4
Which of these statements is true about the Composing Objects principle?
1. it provides behaviour with aggregation instead of inheritance
2. it leads to tighter coupling
1 / 1 point
☐ The first statement is true
☐ The second statement is true
☐ Neither statement is true
☐ Both statements are true
Question 5
Which of these UML diagrams demonstrates the Interface Segregation principle?

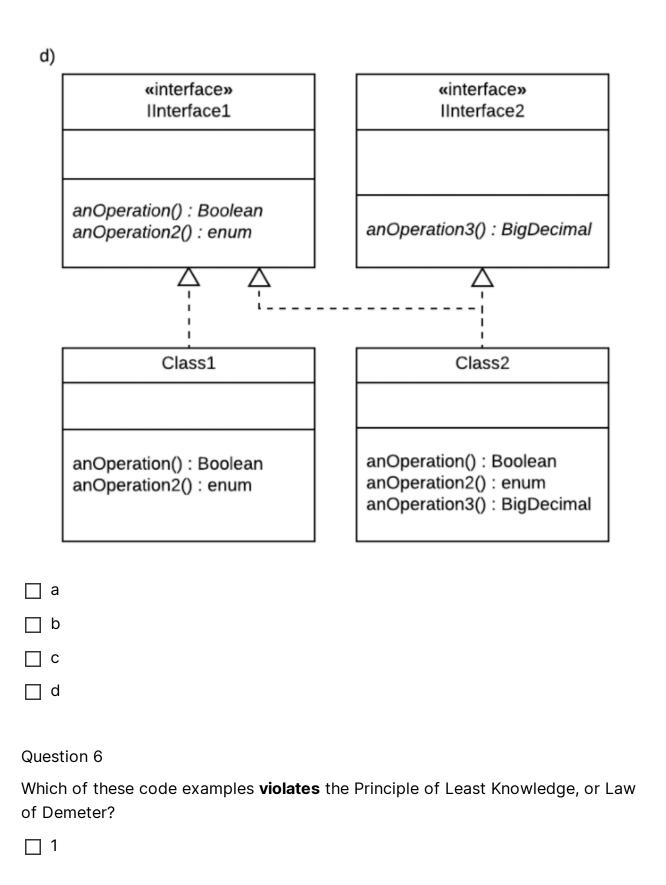


b)



c)





```
public class 0 {
    M I = new M();

    public void anOperation2() {
        this.I.N.anOperation();
    }
}
```

□ 2

```
public class Class1 {
    public void N() {
        System.out.println("Method N invoked");
    }
}

public class Class2 {
    public void M(Class1 P) {
        P.N();
        System.out.println("Method M invoked");
    }
}
```

□ 3

```
public class 0 {
    public void M() {
        this.N();
        System.out.println("Method M invoked");
    }
    public void N() {
        System.out.println("Method N invoked");
    }
}
```

☐ 4

```
public class P {
    public void N() {
       System.out.println("Method N invoked");
    }
}
```

```
public class 0 {
   public void M() {
P I = new P();
I.N();
   System.out.println("Method M invoked");
}
```

Question 7

How can Comments be considered a code smell?

0 / 1 point

They can't! Comments help clarify code.
Excessive commenting can be a coverup for bad code
When a comment is used to explain the rationale behind a design decision
Too many comments make the files too large to compile.

Question 8

What is the primitive obsession code smell about?

0 / 1 point

Code that contains many low-level objects, without using OO principle
like aggregation or inheritance.
Overuse of primitive data types like int, long, float
Using many different primitive types instead of settling on a few that

together capture that appropriate level of detail for your system.

☐ Using key-value pairs instead of abstract data types.

Question 9

You have a class that you keep adding to. Whenever you add new functionality, it just seems like the most natural place to put it, but it is starting to become a

problem! Which code smell is this?

0 / 1 point

Long Method
Large Class
Divergent Change
Speculative generality

Question 10

Why is it important to avoid message chains whenever possible?

0 / 1 point

Ш	errors.
	They lower cohesion in your class.
	It's a workaround to get to private methods, which are important for encapsulation.
	The resulting code is usually rigid and complex.

Question 11

Look at the code snippet. Which code smell do you detect?

```
public class Class1 {
    ...
    public void M(Class2 C) {
        C.doSomething(x);
        C.foo(y);
        C.foo2(z, i);
    }
}
```

☐ Long Parameter List

☐ Feature Envy
☐ Inappropriate Intimacy
☐ Divergent Change
Question 12
Joseph was developing a class for his smartphone poker game, and decided that one day he would like to be able to change the picture on the backs of the cards, so he created a Deck superclass. Since his app does not have that feature yet, Deck has only one subclass, RegularDeck. What code smell is this?
0 / 1 point
☐ Refused Bequest
☐ Divergent Change
☐ Speculative Generality
□ Primitive Ohsession