

OCP QUESTION 14

You want to create a singleton class by using the Singleton design pattern. Which two statements enforce the singleton nature of the design?

- A. Make the class static.
- B. Make the constructor private.
- C. Override equals() and hashCode() methods of the java.lang.Object class.
- D. Use a static reference to point to the single instance.
- E. Implement the Serializable interface.

OCP QUESTION 28

For which two reasons should you use interfaces instead of abstract classes?

- A.** You expect that classes that implement your interfaces have many common methods or fields, or require access modifiers other than public.
- B.** You expect that unrelated classes would implement your interfaces.
- C.** You want to share code among several closely related classes.
- D.** You want to declare non-static or non-final fields.
- E.** You want to take advantage of multiple inheritance of type.

OCP QUESTION 37

Given:

```
interface Answerable {  
    public void answer(String question);  
}
```

Which two class definitions compile?

- A.** abstract class Test implements Answerable {
 public void write(String essay) { }
}
- B.** abstract class Exam implements Answerable {
 public abstract void answer(String str) { }
 public void faint(Boolean bool) { }
}
- C.** class Quiz implements Answerable {
 public void answer(Integer num) { }
}
- D.** class BlindDate implements Answerable {
 public void answer(Integer age) { }
 public String grin(Integer numberOfMissingTeeth) { }
}
- E.** class Interrogation implements Answerable {
 public void answer(String nameAndRank) { }
 public void answer(Integer serialNumber) { }
 public void refuse(String otherQuestions) { }
}

OCP QUESTION 41

Given:

```
1. abstract class Comsat {
2.     Comsat( ) { System.out.println ("Communication Satellite"); }
3.     protected void transmit( ) { System.out.println ("Communication Satellite"); }
4. }
5.
6. class Constellation extends Comsat {
7.     int num;
8.     Constellation(int num) {
9.         /* insert code here */
10.        this.num = num;
11.    }
12.    public void transmit( ) { System.out.println ("Constellation of comsats"); }
13. }
14. class Galileo extends Constellation {
15.     int height, incl;
16.     Galileo(int x, int y) {
17.         /* insert code here */
18.         height = x; incl = y;
19.     }
20.     void transmit( ) { System.out.println ("Galileo"); }
21. }
```

Which two modifications enable the code to compile?

- A. At line 1, remove abstract
- B. At line 9, insert super ();
- C. At line 12, remove public
- D. At line 17, insert super(x);
- E. At line 17, insert super(); super.num = x;
- F. At line 20, use public void transmit() {

OCP QUESTION 53

Given:

```
public enum Season {
    WINTER (6),
    SPRING(10),
    SUMMER (25),
    FALL(14);
    private int averageTemp;
    public Season(int averageTemp) {
        this.averageTemp = averageTemp;
    }
    public int getTemp() {return averageTemp;}
}

public class Vacationer {
    public static void main (String[] args) {
        Season ssn = new Season.SUMMER;
        System.out.println(ssn.getTemp());
    }
}
```

Which two modifications enable the given code to compile?

- A. Nest the Season enumeration declaration within the Vacationer class.
- B. Make the Season enumeration constructor private.
- C. Remove the new keyword from the instantiation of ssn.
- D. Make the getter method of averageTemp as a static method.
- E. Add the final keyword in the declaration of averageTemp.

OCP QUESTION 71

Given:

```
class Gadget {
    int id;
    String name;
    public Gadget(int id, String name) {
        this.id = id;
        this.name = name;
    }
    public boolean equals(Object obj) {           // line n1
        boolean result = false;
        Gadget b = (Gadget) obj;
        if (this.name.equals(b.name)) {
            result = true;
        }
        return result;
    }
}
```

and the code fragment:

```
Gadget g1 = new Gadget(01, "iPhone");
Gadget g2 = new Gadget(10, "iPhone");
System.out.println(g1.equals(g2));              // line n2
```

Which statement is true?

- A. The program prints true.
- B. The program prints false.
- C. A compilation error occurs. To ensure successful compilation, replace line n1 with:
 boolean equals (Gadget obj) {
- D. A compilation error occurs. To ensure successful compilation, replace line n2 with:
 System.out.println(g1.equals((Object) g2));

OCP QUESTION 90

Given:

```
public class Test<T> {
    private T t;
    public T getT() {
        return t;
    }
    public void setT(T t) {
        this.t = t;
    }
    public static void main(String args[]) {
        Test<String> obj1 = new Test<>();
        Test obj2 = new Test();           // line n1
        obj1.setT("1Z0");
        obj2.setT(809);                   // line n2
        System.out.print(obj1.getT() + "-" + obj2.getT());
    }
}
```

What is the result?

- A. 1Z0-809
- B. java.lang.String@<hashcode>
java.lang.Integer@<hashcode>
- C. A compilation error occurs. To rectify it, replace line n1 with:
Test<Integer> obj2 = new Test<>();
- D. A compilation error occurs. To rectify it, replace line n2 with:
obj2.setT(Integer(809));