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Oracle Java SE 21 Developer Professional Sample Questions (Q15-Q20):

NEW QUESTION # 15

Given:

```
java
List<String> l1 = new ArrayList<>(List.of("a", "b"));
List<String> l2 = new ArrayList<>(Collections.singletonList("c"));
Collections.copy(l1, l2);
l2.set(0, "d");
System.out.println(l1);
```

What is the output of the given code fragment?

- A. An IndexOutOfBoundsException is thrown
- B. [d, b]
- C. [a, b]
- D. [d]
- E. [c, b]
- F. An UnsupportedOperationException is thrown

Answer: E

Explanation:

In this code, two lists l1 and l2 are created and initialized as follows:

* l1 Initialization:

* Created using List.of("a", "b"), which returns an immutable list containing the elements "a" and "b".

* Wrapped with new ArrayList<>(...) to create a mutable ArrayList containing the same elements.

* l2 Initialization:

* Created using Collections.singletonList("c"), which returns an immutable list containing the single element "c".

* Wrapped with new ArrayList<>(...) to create a mutable ArrayList containing the same element.

State of Lists Before Collections.copy:

* l1: ["a", "b"]

* l2: ["c"]

Collections.copy(l1, l2):

The Collections.copy method copies elements from the source list (l2) into the destination list (l1). The destination list must have at least as many elements as the source list; otherwise, an IndexOutOfBoundsException is thrown.

In this case, l1 has two elements, and l2 has one element, so the copy operation is valid. After copying, the first element of l1 is replaced with the first element of l2:

* l1 after copy: ["c", "b"]

l2.set(0, "d");

This line sets the first element of l2 to "d".

* l2 after set: ["d"]

Final State of Lists:

* l1: ["c", "b"]

* l2: ["d"]

The System.out.println(l1); statement outputs the current state of l1, which is ["c", "b"]. Therefore, the correct answer is C: [c, b].

NEW QUESTION # 16

Given:

```
java
Deque<Integer> deque = new ArrayDeque<>();
deque.offer(1);
deque.offer(2);
var i1 = deque.peek();
```

```
var i2 = deque.poll();
var i3 = deque.peek();
System.out.println(i1 + " " + i2 + " " + i3);
```

What is the output of the given code fragment?

- A. 2 2 2
- B. 1 1 2
- **C. 1 2 2**
- D. 1 2 1
- E. 2 2 1
- F. An exception is thrown.
- G. 2 1 1
- H. 1 1 1
- I. 2 1 2

Answer: C

Explanation:

In this code, an ArrayDeque named deque is created, and the integers 1 and 2 are added to it using the offer method. The offer method inserts the specified element at the end of the deque.

* State of deque after offers:[1, 2]

The peek method retrieves, but does not remove, the head of the deque, returning 1. Therefore, i1 is assigned the value 1.

* State of deque after peek:[1, 2]

* Value of i1:1

The poll method retrieves and removes the head of the deque, returning 1. Therefore, i2 is assigned the value 1.

* State of deque after poll:[2]

* Value of i2:1

Another peek operation retrieves the current head of the deque, which is now 2, without removing it.

Therefore, i3 is assigned the value 2.

* State of deque after second peek:[2]

* Value of i3:2

The System.out.println statement then outputs the values of i1, i2, and i3, resulting in 1 1 2.

NEW QUESTION # 17

Given:

```
java
try (FileOutputStream fos = new FileOutputStream("t.tmp");
    ObjectOutputStream oos = new ObjectOutputStream(fos)) {
    fos.write("Today");
    fos.writeObject("Today");
    oos.write("Today");
    oos.writeObject("Today");
} catch (Exception ex) {
    // handle exception
}
```

Which statement compiles?

- A. fos.write("Today");
- B. oos.write("Today");
- C. fos.writeObject("Today");
- **D. oos.writeObject("Today");**

Answer: D

Explanation:

In Java, FileOutputStream and ObjectOutputStream are used for writing data to files, but they have different purposes and methods. Let's analyze each statement:

* fos.write("Today");

The FileOutputStream class is designed to write raw byte streams to files. The write method in FileOutputStream expects a

parameter of type int or byte[]. Since "Today" is a String, passing it directly to fos.write("Today"); will cause a compilation error because there is no write method in FileOutputStream that accepts a String parameter.

* fos.writeObject("Today");

The FileOutputStream class does not have a method named writeObject. The writeObject method is specific to ObjectOutputStream. Therefore, attempting to call fos.writeObject("Today"); will result in a compilation error.

* oos.write("Today");

The ObjectOutputStream class is used to write objects to an output stream. However, it does not have a write method that accepts a String parameter. The available write methods in ObjectOutputStream are for writing primitive data types and objects. Therefore, oos.write("Today"); will cause a compilation error.

* oos.writeObject("Today");

The ObjectOutputStream class provides the writeObject method, which is used to serialize objects and write them to the output stream. Since String implements the Serializable interface, "Today" can be serialized.

Therefore, oos.writeObject("Today"); is valid and compiles successfully.

In summary, the only statement that compiles without errors is oos.writeObject("Today");.

References:

- * Java SE 21 & JDK 21 - ObjectOutputStream
- * Java SE 21 & JDK 21 - FileOutputStream

NEW QUESTION # 18

Which StringBuilder variable fails to compile?

```
java
public class StringBuilderInstantiations {
    public static void main(String[] args) {
        var stringBuilder1 = new StringBuilder();
        var stringBuilder2 = new StringBuilder(10);
        var stringBuilder3 = new StringBuilder("Java");
        var stringBuilder4 = new StringBuilder(new char[] {'J', 'a', 'v', 'a'});
    }
}
```

- A. stringBuilder4
- B. stringBuilder1
- C. stringBuilder2
- D. None of them
- E. stringBuilder3

Answer: A

Explanation:

In the provided code, four StringBuilder instances are being created using different constructors:

- * stringBuilder1: new StringBuilder()
- * This constructor creates an empty StringBuilder with an initial capacity of 16 characters.
- * stringBuilder2: new StringBuilder(10)
- * This constructor creates an empty StringBuilder with a specified initial capacity of 10 characters.
- * stringBuilder3: new StringBuilder("Java")
- * This constructor creates a StringBuilder initialized to the contents of the specified string "Java".
- * stringBuilder4: new StringBuilder(new char[] {'J', 'a', 'v', 'a'})
- * This line attempts to create a StringBuilder using a char array. However, the StringBuilder class does not have a constructor that accepts a char array directly. The available constructors are:
- * StringBuilder()
- * StringBuilder(int capacity)
- * StringBuilder(String str)
- * StringBuilder(CharSequence seq)

Since a char array does not implement the CharSequence interface, and there is no constructor that directly accepts a char array, this line will cause a compilation error.

To initialize a StringBuilder with a char array, you can convert the char array to a String first:

```
java
var stringBuilder4 = new StringBuilder(new String(new char[] {'J', 'a', 'v', 'a'}));
```

This approach utilizes the String constructor that accepts a char array, and then passes the resulting String to the StringBuilder constructor.

NEW QUESTION # 19

Which of the following suggestions compile?(Choose two.)

- A. java
public sealed class Figure
permits Circle, Rectangle {}
final sealed class Circle extends Figure {
float radius;
}
non-sealed class Rectangle extends Figure {
float length, width;
}
- B. java
sealed class Figure permits Rectangle {}
final class Rectangle extends Figure {
float length, width;
}
- C. java
public sealed class Figure
permits Circle, Rectangle {}
final class Circle extends Figure {
float radius;
}
non-sealed class Rectangle extends Figure {
float length, width;
}
- D. java
sealed class Figure permits Rectangle {}
public class Rectangle extends Figure {
float length, width;
}

Answer: B,C

Explanation:

Option A (sealed class Figure permits Rectangle {} and final class Rectangle extends Figure {}) - Valid

* Why it compiles?

* Figure is sealed, meaning it must explicitly declare its subclasses.

* Rectangle is permitted to extend Figure and is declared final, meaning it cannot be extended further.

* This follows valid sealed class rules.

Option B (sealed class Figure permits Rectangle {} and public class Rectangle extends Figure {}) - Invalid

* Why it fails?

* Rectangle extends Figure, but it does not specify if it is sealed, final, or non-sealed.

* Fix: The correct declaration must be one of the following:

java

final class Rectangle extends Figure {} // OR

sealed class Rectangle permits OtherClass {} // OR

non-sealed class Rectangle extends Figure {}

Option C (final sealed class Circle extends Figure {}) - Invalid

* Why it fails?

* A class cannot be both final and sealed at the same time.

* sealed means it must have permitted subclasses, but final means it cannot be extended.

* Fix: Change final sealed to just final:

java

final class Circle extends Figure {}

Option D (public sealed class Figure permits Circle, Rectangle {} with final class Circle and non-sealed class Rectangle) - Valid

* Why it compiles?

* Figure is sealed, meaning it must declare its permitted subclasses (Circle and Rectangle).

* Circle is declared final, so it cannot have subclasses.

* Rectangle is declared non-sealed, meaning it can be subclassed freely.

* This correctly follows Java's sealed class rules.

Thus, the correct answers are: A, D

References:

* Java SE 21 - Sealed Classes

* Java SE 21 - Class Modifiers

NEW QUESTION # 20

.....

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