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Oracle Java SE 21 Developer Professional Sample Questions (Q40-Q45):

NEW QUESTION # 40

Given:

```
java
package com.vv;
import java.time.LocalDate;
public class FetchService {
    public static void main(String[] args) throws Exception {
        FetchService service = new FetchService();
        String ack = service.fetch();
        LocalDate date = service.fetch();
        System.out.println(ack + " the " + date.toString());
    }
    public String fetch() {
        return "ok";
    }
    public LocalDate fetch() {
        return LocalDate.now();
    }
}
```

```
}
```

What will be the output?

- A. ok the 2024-07-10
- **B. Compilation fails**
- C. An exception is thrown
- D. ok the 2024-07-10T07:17:45.523939600

Answer: B

Explanation:

In Java, method overloading allows multiple methods with the same name to exist in a class, provided they have different parameter lists (i.e., different number or types of parameters). However, having two methods with the exact same parameter list and only differing in return type is not permitted.

In the provided code, the `FetchService` class contains two `fetch` methods:

```
* public String fetch()
```

```
* public LocalDate fetch()
```

Both methods have identical parameter lists (none) but differ in their return types (`String` and `LocalDate`, respectively). This leads to a compilation error because the Java compiler cannot distinguish between the two methods based solely on return type.

The Java Language Specification (JLS) states:

"It is a compile-time error to declare two methods with override-equivalent signatures in a class." In this context, "override-equivalent" means that the methods have the same name and parameter types, regardless of their return types.

Therefore, the code will fail to compile due to the duplicate method signatures, and the correct answer is B:

Compilation fails.

NEW QUESTION # 41

Which of the following isn't a valid option of the `jdeps` command?

- A. `--list-reduced-deps`
- B. `--print-module-deps`
- C. `--list-deps`
- D. `--generate-module-info`
- **E. `--check-deps`**
- F. `--generate-open-module`

Answer: E

Explanation:

The `jdeps` tool is a Java class dependency analyzer that can be used to understand the static dependencies of applications and libraries. It provides several command-line options to customize its behavior.

Valid `jdeps` Options:

* `--generate-open-module`: Generates a module declaration (`module-info.java`) with open directives for the given JAR files or classes.

* `--list-deps`: Lists the immediate dependencies of the specified classes or JAR files.

* `--generate-module-info`: Generates a module declaration (`module-info.java`) for the given JAR files or classes.

* `--print-module-deps`: Prints the module dependencies of the specified modules or JAR files.

* `--list-reduced-deps`: Lists the reduced dependencies, showing only the packages that are directly depended upon.

Invalid Option:

* `--check-deps`: There is no `--check-deps` option in the `jdeps` tool.

Conclusion:

Option A (`--check-deps`) is not a valid option of the `jdeps` command.

NEW QUESTION # 42

Given:

```
java
```

```
var lyrics = ""
```

```
Quand il me prend dans ses bras
```

```
Qu'il me parle tout bas
```

```
Je vois la vie en rose
```

```

"""
,
for ( int i = 0, int j = 3; i < j; i++ ) {
System.out.println( lyrics.lines()
.toList()
.get( i ) );
}

```

What is printed?

- A. Nothing
- B. vbnet
Quand il me prend dans ses bras
Qu'il me parle tout bas
Je vois la vie en rose
- C. **Compilation fails.**
- D. An exception is thrown at runtime.

Answer: C

Explanation:

* Error in for Loop Initialization

* The initialization part of a for loop cannot declare multiple variables with different types in a single statement.

* Error:

java

```
for (int i = 0, int j = 3; i < j; i++) {
```

* Fix: Declare variables separately:

java

```
for (int i = 0, j = 3; i < j; i++) {
```

* lyrics.lines() in Java 21

* The lines() method of String returns a Stream<String>, splitting the string by line breaks.

* Calling .toList() on a stream converts it to a list.

* Valid Code After Fixing the Loop:

java

```
var lyrics = """
```

```
Quand il me prend dans ses bras
```

```
Qu'il me parle tout bas
```

```
Je vois la vie en rose
```

```
""",
```

```
for (int i = 0, j = 3; i < j; i++) {
```

```
System.out.println(lyrics.lines()
```

```
toList()
```

```
get(i));
```

```
}
```

* Expected Output After Fixing:

vbnet

```
Quand il me prend dans ses bras
```

```
Qu'il me parle tout bas
```

```
Je vois la vie en rose
```

Thus, the correct answer is: **Compilation fails.**

References:

* Java SE 21 - String.lines()

* Java SE 21 - for Statement Rules

NEW QUESTION # 43

Given:

java

```
sealed class Vehicle permits Car, Bike {
```

```
}
```

```
non-sealed class Car extends Vehicle {
```

```
}
```

```
final class Bike extends Vehicle {
```

```

}
public class SealedClassTest {
    public static void main(String[] args) {
        Class<?> vehicleClass = Vehicle.class;
        Class<?> carClass = Car.class;
        Class<?> bikeClass = Bike.class;
        System.out.print("Is Vehicle sealed? " + vehicleClass.isSealed() +
            ", Is Car sealed? " + carClass.isSealed() +
            ", Is Bike sealed? " + bikeClass.isSealed());
    }
}

```

What is printed?

- A. Is Vehicle sealed? true; Is Car sealed? true; Is Bike sealed? true
- B. Is Vehicle sealed? false; Is Car sealed? true; Is Bike sealed? true
- C. Is Vehicle sealed? false; Is Car sealed? false; Is Bike sealed? false
- **D. Is Vehicle sealed? true; Is Car sealed? false; Is Bike sealed? false**

Answer: D

Explanation:

- * Understanding Sealed Classes in Java
- * A sealed class restricts which other classes can extend it.
- * A sealed class must explicitly declare its permitted subclasses using the `permits` keyword.
- * Subclasses can be declared as:
 - * `sealed` (restricts further extension).
 - * `non-sealed` (removes the restriction, allowing unrestricted subclassing).
 - * `final` (prevents further subclassing).
- * Analyzing the Given Code
 - * `Vehicle` is declared as sealed with `permits Car, Bike`, meaning only `Car` and `Bike` can extend it.
 - * `Car` is declared as non-sealed, which means it is no longer sealed and can have subclasses.
 - * `Bike` is declared as final, meaning it cannot be subclassed.
- * Using `isSealed()` Method
 - * `vehicleClass.isSealed()` #true because `Vehicle` is explicitly marked as sealed.
 - * `carClass.isSealed()` #false because `Car` is marked non-sealed.
 - * `bikeClass.isSealed()` #false because `Bike` is final, and a final class is not considered sealed.
- * Final Output

csharp

Is Vehicle sealed? true; Is Car sealed? false; Is Bike sealed? false

Thus, the correct answer is: "Is Vehicle sealed? true; Is Car sealed? false; Is Bike sealed? false" References:

- * Java SE 21 - Sealed Classes
- * Java SE 21 - `isSealed()` Method

NEW QUESTION # 44

Given:

java

```

Object input = 42;
String result = switch (input) {
    case String s -> "It's a string with value: " + s;
    case Double d -> "It's a double with value: " + d;
    case Integer i -> "It's an integer with value: " + i;
};
System.out.println(result);

```

What is printed?

- A. null
- B. It's a string with value: 42
- C. It's a double with value: 42
- **D. Compilation fails.**
- E. It throws an exception at runtime.

- F. It's an integer with value: 42

Answer: D

Explanation:

- * Pattern Matching in switch
- * The switch expression introduced in Java 21 supports pattern matching for different types.
- * However, a switch expression must be exhaustive, meaning it must cover all possible cases or provide a default case.
- * Why does compilation fail?
- * input is an Object, and the switch expression attempts to pattern-match it to String, Double, and Integer.
- * If input had been of another type (e.g., Float or Long), there would be no matching case, leading to a non-exhaustive switch.
- * Java requires a default case to ensure all possible inputs are covered.
- * Corrected Code (Adding a default Case)

java

Object input = 42;

```
String result = switch (input) {
    case String s -> "It's a string with value: " + s;
    case Double d -> "It's a double with value: " + d;
    case Integer i -> "It's an integer with value: " + i;
    default -> "Unknown type";
};
```

System.out.println(result);

- * With this change, the code compiles and runs successfully.

- * Output:

vbnet

It's an integer with value: 42

Thus, the correct answer is: Compilation fails due to a missing default case.

References:

- * Java SE 21 - Pattern Matching for switch
- * Java SE 21 - switch Expressions

NEW QUESTION # 45

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