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Oracle Java SE 21 Developer Professional Sample Questions (Q79-Q84):

NEW QUESTION # 79

Given:

```
java
```

```

interface Calculable {
    long calculate(int i);
}
public class Test {
    public static void main(String[] args) {
        Calculable c1 = i -> i + 1; // Line 1
        Calculable c2 = i -> Long.valueOf(i); // Line 2
        Calculable c3 = i -> { throw new ArithmeticException(); }; // Line 3
    }
}

```

Which lines fail to compile?

- A. Line 1 and line 3
- **B. The program successfully compiles**
- C. Line 1 and line 2
- D. Line 1 only
- E. Line 2 and line 3
- F. Line 3 only
- G. Line 2 only

Answer: B

Explanation:

In this code, the Calculable interface defines a single abstract method calculate that takes an int parameter and returns a long. The main method contains three lambda expressions assigned to variables c1, c2, and c3 of type Calculable.

* Line 1: Calculable c1 = i -> i + 1;

This lambda expression takes an integer i and returns the result of i + 1. Since the expression i + 1 results in an int, and Java allows implicit widening conversion from int to long, this line compiles successfully.

* Line 2: Calculable c2 = i -> Long.valueOf(i);

Here, the lambda expression takes an integer i and returns the result of Long.valueOf(i). The Long.valueOf(int i) method returns a Long object. However, Java allows unboxing of the Long object to a long primitive type when necessary. Therefore, this line compiles successfully.

* Line 3: Calculable c3 = i -> { throw new ArithmeticException(); };

This lambda expression takes an integer i and throws an ArithmeticException. Since the method calculate has a return type of long, and throwing an exception is a valid way to exit the method without returning a value, this line compiles successfully.

Since all three lines adhere to the method signature defined in the Calculable interface and there are no type mismatches or syntax errors, the program compiles successfully.

NEW QUESTION # 80

Given:

```

java
var hauteCouture = new String[] { "Chanel", "Dior", "Louis Vuitton" };
var i = 0;
do {
    System.out.print(hauteCouture[i] + " ");
} while (i++ > 0);

```

What is printed?

- A. An ArrayIndexOutOfBoundsException is thrown at runtime.
- B. Compilation fails.
- **C. Chanel**
- D. Chanel Dior Louis Vuitton

Answer: C

Explanation:

* Understanding the do-while Loop

* The do-while loop executes at least once before checking the condition.

* The condition i++ > 0 increments i after checking.

* Step-by-Step Execution

- * Iteration 1:
- * `i = 0`
- * Prints: "Chanel"
- * `i++` updates `i` to 1
- * Condition `1 > 0` is true, so the loop exits.
- * Why Doesn't the Loop Continue?
- * Since `i` starts at 0, the condition `i++ > 0` is false after the first iteration.
- * The loop exits immediately after printing "Chanel".
- * Final Output

```

nginx
Chanel

```

Thus, the correct answer is: Chanel

References:

- * Java SE 21 - do-while Loop
- * Java SE 21 - Post-Increment Behavior

NEW QUESTION # 81

Which three of the following are correct about the Java module system?

- A. If a package is defined in both a named module and the unnamed module, then the package in the unnamed module is ignored.
- B. Code in an explicitly named module can access types in the unnamed module.
- C. The unnamed module can only access packages defined in the unnamed module.
- D. The unnamed module exports all of its packages.
- E. We must add a module descriptor to make an application developed using a Java version prior to SE9 run on Java 11.
- F. If a request is made to load a type whose package is not defined in any known module, then the module system will attempt to load it from the classpath.

Answer: A,D,F

Explanation:

The Java Platform Module System (JPMS), introduced in Java 9, modularizes the Java platform and applications. Understanding the behavior of named and unnamed modules is crucial.

* B. The unnamed module exports all of its packages.

Correct. The unnamed module, which includes all code on the classpath, exports all of its packages. This means that any code can access the public types in these packages. However, the unnamed module cannot be explicitly required by named modules.

* C. If a package is defined in both a named module and the unnamed module, then the package in the unnamed module is ignored. Correct. In cases where a package is present in both a named module and the unnamed module, the version in the named module takes precedence. The package in the unnamed module is ignored to maintain module integrity and avoid conflicts.

* F. If a request is made to load a type whose package is not defined in any known module, then the module system will attempt to load it from the classpath.

Correct. When the module system cannot find a requested type in any known module, it defaults to searching the classpath (i.e., the unnamed module) to locate the type.

Incorrect Options:

* A. Code in an explicitly named module can access types in the unnamed module.

Incorrect. Named modules cannot access types in the unnamed module. The unnamed module can read from named modules, but the reverse is not allowed to ensure strong encapsulation.

* D. We must add a module descriptor to make an application developed using a Java version prior to SE9 run on Java 11.

Incorrect. Adding a module descriptor (`module-info.java`) is not mandatory for applications developed before Java 9 to run on Java 11. Such applications can run in the unnamed module without modification.

* E. The unnamed module can only access packages defined in the unnamed module.

Incorrect. The unnamed module can access all packages exported by all named modules, in addition to its own packages.

NEW QUESTION # 82

Given:

```
java
```

```
List<Long> cannesFestivalfeatureFilms = LongStream.range(1, 1945)
    .boxed()
```

```

.toList();
try (var executor = Executors.newVirtualThreadPerTaskExecutor()) {
cannesFestivalfeatureFilms.stream()
.limit(25)
.forEach(film -> executor.submit(() -> {
System.out.println(film);
}));
}
}

```

What is printed?

- A. Numbers from 1 to 25 sequentially
- B. Compilation fails
- C. An exception is thrown at runtime
- D. Numbers from 1 to 1945 randomly
- E. Numbers from 1 to 25 randomly

Answer: E

Explanation:

- * Understanding LongStream.range(1, 1945).boxed().toList();
- * LongStream.range(1, 1945) generates a stream of numbers from 1 to 1944.
- * .boxed() converts the primitive long values to Long objects.
- * .toList() (introduced in Java 16) creates an immutable list.
- * Understanding Executors.newVirtualThreadPerTaskExecutor()
- * Java 21 introduced virtual threads to improve concurrency.
- * Executors.newVirtualThreadPerTaskExecutor() creates a new virtual thread per submitted task, allowing highly concurrent execution.
- * Execution Behavior
- * CannesFestivalfeatureFilms.stream().limit(25) # Limits the stream to the first 25 numbers (1 to 25).
- * .forEach(film -> executor.submit(() -> System.out.println(film)))
- * Each film is printed inside a virtual thread.
- * Virtual threads execute asynchronously, meaning numbers are not guaranteed to print sequentially.
- * Output will contain numbers from 1 to 25, but their order is random due to concurrent execution.
- * Possible Output (Random Order)

python-repl

3

1

5

2

4

7

25

- * The order may differ in each run due to concurrent execution.

Thus, the correct answer is: "Numbers from 1 to 25 randomly."

References:

- * Java SE 21 - Virtual Threads
- * Java SE 21 - Executors.newVirtualThreadPerTaskExecutor()

NEW QUESTION # 83

Which of the following isn't a correct way to write a string to a file?

- A. java
try (FileOutputStream outputStream = new FileOutputStream("file.txt")) { byte[] strBytes = "Hello".getBytes();
outputStream.write(strBytes);
}
- B. java
try (PrintWriter printWriter = new PrintWriter("file.txt")) {
printWriter.printf("Hello %s", "James");
}

- C. java

```
try (BufferedWriter writer = new BufferedWriter("file.txt")) {
    writer.write("Hello");
}
```
- D. None of the suggestions
- E. java

```
Path path = Paths.get("file.txt");
byte[] strBytes = "Hello".getBytes();
Files.write(path, strBytes);
```
- F. java

```
try (FileWriter writer = new FileWriter("file.txt")) {
    writer.write("Hello");
}
```

Answer: C

Explanation:

(BufferedWriter writer = new BufferedWriter("file.txt") is incorrect.)

The incorrect statement is option B because BufferedWriter does not have a constructor that accepts a String (file name) directly. The correct way to use BufferedWriter is to wrap it around a FileWriter, like this:

java

```
try (BufferedWriter writer = new BufferedWriter(new FileWriter("file.txt"))) { writer.write("Hello");
}
```

Evaluation of Other Options:

Option A (Files.write)# Correct

* Uses Files.write() to write bytes to a file.

* Efficient and concise method for writing small text files.

Option C (FileOutputStream)# Correct

* Uses a FileOutputStream to write raw bytes to a file.

* Works for both text and binary data.

Option D (PrintWriter)# Correct

* Uses PrintWriter for formatted text output.

Option F (FileWriter)# Correct

* Uses FileWriter to write text data.

Option E (None of the suggestions)# Incorrect because option B is incorrect.

NEW QUESTION # 84

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