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Oracle Java SE 21 Developer Professional Sample Questions (Q77-Q82):

NEW QUESTION # 77

Which two of the following aren't the correct ways to create a Stream?

- A. `Stream stream = Stream.of();`
- **B. `Stream<String> stream = Stream.builder().add("a").build();`**
- **C. `Stream stream = new Stream();`**
- D. `Stream stream = Stream.empty();`
- E. `Stream stream = Stream.generate(() -> "a");`
- F. `Stream stream = Stream.of("a");`
- G. `Stream stream = Stream.ofNullable("a");`

Answer: B,C

Explanation:

In Java, the Stream API provides several methods to create streams. However, not all approaches are valid.

NEW QUESTION # 78

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

Answer: B

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 # 79

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

Answer: B

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 # 80

Given:

java

```

int post = 5;
int pre = 5;
int postResult = post++ + 10;
int preResult = ++pre + 10;
System.out.println("postResult: " + postResult +
", preResult: " + preResult +
", Final value of post: " + post +
", Final value of pre: " + pre);
What is printed?

```

- A. postResult: 15, preResult: 16, Final value of post: 5, Final value of pre: 6
- **B. postResult: 15, preResult: 16, Final value of post: 6, Final value of pre: 6**
- C. postResult: 16, preResult: 15, Final value of post: 6, Final value of pre: 5
- D. postResult: 16, preResult: 16, Final value of post: 6, Final value of pre: 6

Answer: B

Explanation:

- * Understanding post++ (Post-increment)
- * post++ uses the value first, then increments it.
- * postResult = post++ + 10;
- * post starts as 5.
- * post++ returns 5, then post is incremented to 6.
- * postResult = 5 + 10 = 15.
- * Final value of post after this line is 6.
- * Understanding ++pre (Pre-increment)
- * ++pre increments the value first, then uses it.
- * preResult = ++pre + 10;
- * pre starts as 5.
- * ++pre increments pre to 6, then returns 6.
- * preResult = 6 + 10 = 16.
- * Final value of pre after this line is 6.

Thus, the final output is:

yaml

postResult: 15, preResult: 16, Final value of post: 6, Final value of pre: 6 References:

- * Java SE 21 - Operators and Expressions
- * Java SE 21 - Arithmetic Operators

NEW QUESTION # 81

Which methods compile?

- **A. `java public List<? super IOException> getListSuper() { return new ArrayList<Exception>(); } csharp`**
- **B. `java public List<? extends IOException> getListExtends() { return new ArrayList<Exception>(); } csharp`**
- C. `java public List<? super IOException> getListSuper() { return new ArrayList<FileNotFoundException>(); }`
- **D. `java public List<? extends IOException> getListExtends() { return new ArrayList<FileNotFoundException>(); }`**

Answer: A,D

Explanation:

In Java generics, wildcards are used to relax the type constraints of generic types. The extends wildcard (`<? extends Type>`) denotes an upper bounded wildcard, allowing any type that is a subclass of Type. Conversely, the super wildcard (`<? super Type>`) denotes a lower bounded wildcard, allowing any type that is a superclass of Type.

Option A:

java

```
public List<? super IOException> getListSuper() {
    return new ArrayList<Exception>();
}
```

Here, `List<? super IOException>` represents a list that can hold `IOException` objects and objects of its supertypes. Since `Exception` is a superclass of `IOException`, `ArrayList<Exception>` is compatible with `List<? super IOException>`. Therefore, this method compiles successfully.

Option B:

```
java
public List<? extends IOException> getListExtends() {
    return new ArrayList<FileNotFoundException>();
}
```

In this case, `List<? extends IOException>` represents a list that can hold objects of `IOException` and its subclasses. Since `FileNotFoundException` is a subclass of `IOException`, `ArrayList<FileNotFoundException>` is compatible with `List<? extends IOException>`. Thus, this method compiles successfully.

Option C:

```
java
public List<? extends IOException> getListExtends() {
    return new ArrayList<Exception>();
}
```

Here, `List<? extends IOException>` expects a list of `IOException` or its subclasses. However, `Exception` is a superclass of `IOException`, not a subclass. Therefore, `ArrayList<Exception>` is not compatible with `List<? extends IOException>`, and this method will not compile.

Option D:

```
java
public List<? super IOException> getListSuper() {
    return new ArrayList<FileNotFoundException>();
}
```

In this scenario, `List<? super IOException>` expects a list that can hold `IOException` objects and objects of its supertypes. Since `FileNotFoundException` is a subclass of `IOException`, `ArrayList<FileNotFoundException>` is not compatible with `List<? super IOException>`, and this method will not compile.

Therefore, the methods in options A and B compile successfully, while those in options C and D do not.

NEW QUESTION # 82

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