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Oracle Java SE 21 Developer Professional Sample Questions (Q51-Q56):

NEW QUESTION # 51

Given a properties file on the classpath named Person.properties with the content:

```
ini
```

```
name=James
```

```
And:
```

```
java
```

```
public class Person extends ListResourceBundle {  
    protected Object[][] getContents() {
```

```

return new Object[][] {
    {"name", "Jeanne"}
};
}
}
And:
java
public class Test {
    public static void main(String[] args) {
        ResourceBundle bundle = ResourceBundle.getBundle("Person");
        String name = bundle.getString("name");
        System.out.println(name);
    }
}

```

What is the given program's output?

- A. JamesJeanne
- B. MissingResourceException
- C. Compilation fails
- D. JeanneJames
- E. James
- **F. Jeanne**

Answer: F

Explanation:

In this scenario, we have a Person class that extends ListResourceBundle and a properties file named Person.properties. Both define a resource with the key "name" but with different values:

* Person class (ListResourceBundle): Defines the key "name" with the value "Jeanne".

* Person.properties file: Defines the key "name" with the value "James".

When the ResourceBundle.getBundle("Person") method is called, the Java runtime searches for a resource bundle with the base name "Person". The search order is as follows:

* Class-Based Resource Bundle: The runtime first looks for a class named Person (i.e., Person.class).

* Properties File Resource Bundle: If the class is not found, it then looks for a properties file named Person.properties.

In this case, since the Person class is present and accessible, the runtime will load the Person class as the resource bundle.

Therefore, the getBundle method returns an instance of the Person class.

Subsequently, when bundle.getString("name") is called, it retrieves the value associated with the key "name" from the Person class, which is "Jeanne".

Thus, the output of the program is:

```

Jeanne

```

NEW QUESTION # 52

Given:

```

java
var _ = 3;
var $ = 7;
System.out.println(_ + $);
What is printed?

```

- A. It throws an exception.
- B. 0
- **C. Compilation fails.**
- D. _\$

Answer: C

Explanation:

* The var keyword and identifier rules:

* The var keyword is used for local variable type inference introduced in Java 10.

* However, Java does not allow `_` (underscore) as an identifier since Java 9.

* If we try to use `_` as a variable name, the compiler will throw an error:

```
pgsql
error: as of release 9, '_' is a keyword, and may not be used as an identifier
```

* The `$` symbol as an identifier:

* The `$` character is a valid identifier in Java.

* However, since `_` is not allowed, the code fails to compile before even reaching `$`.

Thus, the correct answer is "Compilation fails."

References:

- * Java SE 21 - var Local Variable Type Inference
- * Java SE 9 - Restrictions on `_` Identifier

NEW QUESTION # 53

Given:

```
java
StringBuilder result = Stream.of("a", "b")
    .collect(
        () -> new StringBuilder("c"),
        StringBuilder::append,
        (a, b) -> b.append(a)
    );
System.out.println(result);
```

What is the output of the given code fragment?

- A. cbca
- B. bac
- C. bca
- D. cacb
- E. cba
- F. acb
- G. abc

Answer: E

Explanation:

In this code, a Stream containing the elements "a" and "b" is processed using the collect method. The collect method is a terminal operation that performs a mutable reduction on the elements of the stream using a Collector. In this case, custom implementations for the supplier, accumulator, and combiner are provided.

Components of the collect Method:

* Supplier:

* `() -> new StringBuilder("c")`

* This supplier creates a new StringBuilder initialized with the string "c".

* Accumulator:

* `StringBuilder::append`

* This accumulator appends each element of the stream to the StringBuilder.

* Combiner:

* `(a, b) -> b.append(a)`

* This combiner is used in parallel stream operations to merge two StringBuilder instances. It appends the contents of a to b.

Execution Flow:

* Stream Elements: "a", "b"

* Initial StringBuilder: "c"

* Accumulation:

* The first element "a" is appended to "c", resulting in "ca".

* The second element "b" is appended to "ca", resulting in "cab".

* Combiner:

* In this sequential stream, the combiner is not utilized. The combiner is primarily used in parallel streams to merge partial results.

Final Result:

The StringBuilder contains "cab". Therefore, the output of the program is:

```
nginx
cab
```

NEW QUESTION # 54

Given:

```
java
double amount = 42_000.00;
NumberFormat format = NumberFormat.getCompactNumberInstance(Locale.FRANCE, NumberFormat.Style.SHORT);
System.out.println(format.format(amount));
What is the output?
```

- A. 42 000,00 €
- B. 0
- C. 42000E
- **D. 42 k**

Answer: D

Explanation:

In this code, a double variable amount is initialized to 42,000.00. The NumberFormat.getCompactNumberInstance(Locale.FRANCE, NumberFormat.Style.SHORT) method is used to obtain a compact number formatter for the French locale with the short style. The format method is then called to format the amount. The compact number formatting is designed to represent numbers in a shorter form, based on the patterns provided for a given locale. In the French locale, the short style represents thousands with a lowercase 'k'. Therefore, 42,000 is formatted as 42 k.

* Option Evaluations:

- * A. 42000E: This format is not standard in the French locale for compact number formatting.
- * B. 42 000,00 €: This represents the number as a currency with two decimal places, which is not the compact form.
- * C. 42000: This is the plain number without any formatting, which does not match the compact number format.
- * D. 42 k: This is the correct compact representation of 42,000 in the French locale with the short style.

Thus, option D (42 k) is the correct output.

NEW QUESTION # 55

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

Answer: B

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

NEW QUESTION # 56

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