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Oracle Java SE 21 Developer Professional Sample Questions (Q54-Q59):

NEW QUESTION # 54

What is the output of the following snippet? (Assume the file exists)

```
java
Path path = Paths.get("C:\\home\\joe\\foo");
System.out.println(path.getName(0));
```

- A. Compilation error
- B. C
- **C. home**
- D. C:
- E. IllegalArgumentException

Answer: C

Explanation:

In Java's `java.nio.file` package, the `Path` class represents a file path in a file system. The `Paths.get(String first, String... more)` method is used to create a `Path` instance by converting a path string or URI.

In the provided code snippet, the `Path` object `path` is created with the string `"C:\\home\\joe\\foo"`. This represents an absolute path on a Windows system.

The `getName(int index)` method of the `Path` class returns a name element of the path as a `Path` object. The index is zero-based, where index 0 corresponds to the first element in the path's name sequence. It's important to note that the root component (e.g., `"C:\"` on Windows) is not considered a name element and is not included in this sequence.

Therefore, for the path `"C:\\home\\joe\\foo"`:

* Root Component: `"C:\"`

* Name Elements:

* Index 0: `"home"`

* Index 1: `"joe"`

* Index 2: `"foo"`

When `path.getName(0)` is called, it returns the first name element, which is `"home"`. Thus, the output of the `System.out.println` statement is `home`.

NEW QUESTION # 55

Given:

```
java
Object myVar = 0;
String print = switch (myVar) {
case int i -> "integer";
case long l -> "long";
case String s -> "string";
default -> "";
};
System.out.println(print);
What is printed?
```

- A. long
- **B. Compilation fails.**
- C. It throws an exception at runtime.
- D. nothing
- E. string
- F. integer

Answer: B

Explanation:

- * Why does the compilation fail?
- * The Java switch statement does not support primitive type pattern matching in switch expressions as of Java 21.
- * The case pattern `case int i -> "integer";` is invalid because pattern matching with primitive types (like `int` or `long`) is not yet supported in switch statements.
- * The error occurs at `case int i -> "integer";`, leading to a compilation failure.
- * Correcting the Code
- * Since `myVar` is of type `Object`, autoboxing converts `0` into an `Integer`.
- * To make the code compile, we should use `Integer` instead of `int`:

```
java
Object myVar = 0;
String print = switch (myVar) {
    case Integer i -> "integer";
    case Long l -> "long";
    case String s -> "string";
    default -> "";
};
System.out.println(print);
```

* Output:

```
bash
integer
```

Thus, the correct answer is: Compilation fails.

References:

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

NEW QUESTION # 56

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

Answer: C

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 # 57

Which of the following java.io.Console methods does not exist?

- A. readPassword(String fmt, Object... args)
- B. readLine()
- C. readLine(String fmt, Object... args)
- D. reader()
- E. readPassword()
- F. read()

Answer: F

Explanation:

* java.io.Console is used for interactive input from the console.

* Existing Methods in java.io.Console

* reader() # Returns a Reader object.

* readLine() # Reads a line of text from the console.

* readLine(String fmt, Object... args) # Reads a formatted line.

* readPassword() # Reads a password, returning a char[].

* readPassword(String fmt, Object... args) # Reads a formatted password.

* read() Does Not Exist

* Console does not have a read() method.

* If character-by-character reading is required, use:

```
java
```

```
Console console = System.console();
```

```
Reader reader = console.reader();
```

```
int c = reader.read(); // Reads one character
```

* read() is available in Reader, but not in Console.

Thus, the correct answer is read() does not exist.

References:

* Java SE 21 - Console API

* Java SE 21 - Reader API

NEW QUESTION # 58

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. 1 1 1
- B. 1 1 2
- C. 2 1 1
- D. An exception is thrown.
- E. 2 1 2
- F. 2 2 1

- G. 2 2 2
- **H. 1 2 2**
- I. 1 2 1

Answer: H

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 # 59

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