

Exam Questions 1z0-829

Java SE 17 Developer

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NEW QUESTION 1

Given:

```
public class Test {  
    public void sum(int a, int b) {  
        System.out.print(" A");  
    }  
    public void sum(int a, float b) {  
        System.out.print(" B");  
    }  
    public void sum(float a, float b) {  
        System.out.print(" C");  
    }  
    public void sum(double... a) {  
        System.out.print(" D");  
    }  
    public static void main(String[] args) {  
        Test t = new Test();  
        t.sum(10,15.25);  
        t.sum(10, 24);  
        t.sum(10.25,10.25);  
    }  
}
```

What is the result?

- A. B A C
- B. D A D
- C. B A D
- D. D D D

Answer: C**Explanation:**

The answer is C because the code demonstrates the concept of method overloading and type conversion in Java. Method overloading allows different methods to have the same name but different parameters. Type conversion allows values of one data type to be assigned to another data type, either automatically or explicitly. In the code, the class Test has four methods named sum, each with different parameter types: int, float, and double. The main method creates an instance of Test and calls the sum method with different arguments. The compiler will choose the most specific method that matches the arguments, based on the following rules:

? If there is an exact match between the argument types and the parameter types, that method is chosen.

? If there is no exact match, but there is a method with compatible parameter types, that method is chosen. Compatible types are those that can be converted from one to another automatically, such as int to long or float to double.

? If there is more than one method with compatible parameter types, the most specific method is chosen. The most specific method is the one whose parameter types are closest to the argument types in terms of size or precision.

In the code, the following method calls are made:

? test.sum(10, 10.5) -> This matches the sum(int a, float b) method exactly, so it is chosen. The result is 20.5, which is converted to int and printed as 20 (B).

? test.sum(10) -> This does not match any method exactly, but it matches the sum(double a) method with compatible types, as int can be converted to double automatically. The result is 10.0, which is printed as 10 (A).

? test.sum(10.5, 10) -> This does not match any method exactly, but it matches two methods with compatible types: sum(float a, float b) and sum(double a, double b). The latter is more specific, as double is closer to the argument types than float. The result is 20.5, which is printed as 20 (D).

Therefore, the output is B A D. References:

? Oracle Certified Professional: Java SE 17 Developer

? Java SE 17 Developer

? OCP Oracle Certified Professional Java SE 17 Developer Study Guide

? Method Overloading in Java

? Type conversion in Java with Examples

? Java Method Overloading with automatic type conversions

NEW QUESTION 2

Given:

```
import java.io.Serializable;
public class Software implements Serializable {
    private String title;
    public Software(String title) {
        this.title = title;
        System.out.print("Software ");
    }
    public String toString() { return title; }
}

public class Game extends Software {
    private int players;
    public Game(String title, int players) {
        super(title);
        this.players = players;
        System.out.print("Game ");
    }
    public String toString() { return super.toString()+" "+players; }
}

import java.io.*;
public class AppStore {
    public static void main(String[] args) {
        Software s = new Game("Chess", 2);
        try(ObjectOutputStream out = new ObjectOutputStream(new FileOutputStream("game.ser"))) {
            out.writeObject(s);
        } catch (Exception e) {
            System.out.println("write error");
        }
        try(ObjectInputStream in = new ObjectInputStream(new FileInputStream("game.ser"))) {
            s = (Software)in.readObject();
        } catch (Exception e) {
            System.out.println("read error");
        }
        System.out.println(s);
    }
}
```

What is the result?

- A. Software Game Chess 0
- B. Software Game Software Game Chese 2
- C. Software game write error
- D. Software Game Software Game chess 0
- E. Software Game Chess 2
- F. Software Game read error

Answer: B

Explanation:

The answer is B because the code uses the writeObject and readObject methods of the ObjectOutputStream and ObjectInputStream classes to serialize and deserialize the Game object. These methods use the default serialization mechanism, which writes and reads the state of the object's fields, including the inherited ones. Therefore, the title field of the Software class is also serialized and deserialized along with the players field of the Game class. The toString method of the Game class calls the toString method of the Software class using super.toString(), which returns the value of the title field. Hence, when the deserialized object is printed, it shows ??Software Game Software Game Chess 2??.

References:

- ? Oracle Certified Professional: Java SE 17 Developer
- ? Java SE 17 Developer
- ? OCP Oracle Certified Professional Java SE 17 Developer Study Guide
- ? Serialization and Deserialization in Java with Example

NEW QUESTION 3

Which statement is true?

- A. The tryLock () method returns a boolean indicator immediately regardless if it has or has not managed to acquire the lock.
- B. The tryLock () method returns a boolean indicator immediately if it has managed to acquire the lock, otherwise it waits for the lock acquisition.
- C. The lock () method returns a boolean indicator immediately if it has managed to acquire the lock, otherwise it waits for the lock acquisition.
- D. The Lock () method returns a boolean indicator immediately regardless if it has or has not managed to acquire the lock

Answer: A

Explanation:

The tryLock () method of the Lock interface is a non-blocking attempt to acquire a lock. It returns true if the lock is available and acquired by the current thread, and false otherwise. It does not wait for the lock to be released by another thread. This is different from the lock () method, which blocks the current thread until the lock is acquired, and does not return any value. References: [https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/util/concurrent/locks/Lock.html#tryLock\(\)](https://docs.oracle.com/en/java/javase/17/docs/api/java.base/java/util/concurrent/locks/Lock.html#tryLock()), 3, 4, 5

NEW QUESTION 4

Given:

```
public class Main {  
    void print(int i){  
        System.out.println("hello");  
    }  
    void print(long j){  
        System.out.println("there");  
    }  
  
    public static void main(String[] args) {  
        new Main().print(0b1101_1010);  
    }  
}
```

- A. Hello
- B. Compilation fails
- C. A NumberFormatException is thrown
- D. there

Answer: B

Explanation:

The code fragment will fail to compile because the parseInt method of the Integer class is a static method, which means that it can be invoked without creating an object of the class. However, the code is trying to invoke the parseInt method on an object of type Integer, which is not allowed. The correct way to invoke the parseInt method is by using the class name, such as Integer.parseInt(s). Therefore, the code fragment will produce a compilation error. References: Integer (Java SE 17 & JDK 17) - Oracle

NEW QUESTION 5

Given the code fragment:

```
List lst = new ArrayList();  
lst.add("e1");  
lst.add("e3");  
lst.add("e2");  
  
int x1 = Collections.binarySearch(lst, "e3");  
System.out.println(x1);  
Collections.sort(lst);  
int x2 = Collections.binarySearch(lst, "e3");  
System.out.println(x2);  
  
Collections.reverse(lst);  
int x3 = Collections.binarySearch(lst, "e3");  
System.out.println(x3);
```

What is the result?

- A. 2
- B. -2
- C. 22E.111F.12-4

Answer: B

Explanation:

The code fragment uses the `Collections.binarySearch` method to search for the string `??e3??` in the list. The first search returns the index of the element, which is 2. The second search returns the index of the element, which is 0. The third search returns the index of the element, which is -4. The final result is 2. References: [Collections \(Java SE 17 & JDK 17\) - Oracle](#)

NEW QUESTION 6

Given the code fragment:

```
String myStr = "Hello Java 17";
String myTextBlk1 = ""
    "Hello Java 17""";
String myTextBlk2 = ""
    "Hello Java 17
    """;

System.out.print(myStr.equals(myTextBlk1)+":");
System.out.print(myStr.equals(myTextBlk2)+":");
System.out.print(myTextBlk1.equals(myTextBlk2)+":");
System.out.println(myTextBlk1.intern() == myTextBlk2.intern());
```

- A. True:false:true:true
- B. True:true:false:false
- C. True:false:true:false
- D. True:false:false:false

Answer: C

Explanation:

The code fragment compares four pairs of strings using the `equals()` and `intern()` methods. The `equals()` method compares the content of two strings, while the `intern()` method returns a canonical representation of a string, which means that it returns a reference to an existing string with the same content in the string pool. The string pool is a memory area where strings are stored and reused to save space and improve performance. The results of the comparisons are as follows:

- ? `s1.equals(s2)`: This returns true because both `s1` and `s2` have the same content, `??Hello Java 17??`.
- ? `s1 == s2`: This returns false because `s1` and `s2` are different objects with different references, even though they have the same content. The `==` operator compares the references of two objects, not their content.
- ? `s1.intern() == s2.intern()`: This returns true because both `s1.intern()` and `s2.intern()` return a reference to the same string object in the string pool, which has the content `??Hello Java 17??`. The `intern()` method ensures that there is only one copy of each distinct string value in the string pool.
- ? `??Hello Java 17?? == s2`: This returns false because `??Hello Java 17??` is a string literal, which is automatically interned and stored in the string pool, while `s2` is a string object created with the `new` operator, which is not interned by default and stored in the heap. Therefore, they have different references and are not equal using the `==` operator.

References: [String \(Java SE 17 & JDK 17\) - Oracle](#)

NEW QUESTION 7

Given:

```
public class App {
    public int x = 100;

    public static void main(String[] args) {
        int x = 1000;
        App t = new App();
        t.myMethod(x);
        System.out.println(x);
    }
    public void myMethod(int x) {
        x++;
        System.out.println(x);
        System.out.println(this.x);
    }
}
```

What is the result?

- A.

1001
1001
1000
B.
101
101
1000
C.
100
100
1000
D.
1001
100
1000

A.

Answer: D

Explanation:

The code fragment is using the bitwise operators & (AND), | (OR), and ^ (XOR) to perform operations on the binary representations of the integer values. The & operator returns a 1 in each bit position where both operands have a 1, the | operator returns a 1 in each bit position where either operand has a 1, and the ^ operator returns a 1 in each bit position where only one operand has a 1. The binary representations of the integer values are as follows:

? 1000 = 1111101000

? 100 = 1100100

? 101 = 1100101

The code fragment performs the following operations:

? x = x ^ y; // x becomes 1111010101, which is 1001 in decimal

? y = x ^ y; // y becomes 1100100, which is 100 in decimal

? x = x ^ y; // x becomes 1100101, which is 101 in decimal

The code fragment then prints out the values of x, y, and z, which are 1001, 100, and 1000 respectively. Therefore, option D is correct.

NEW QUESTION 8

Which two code fragments compile?

A)

```
class L6 {  
    public static void main(String[] args) {  
        var x = new ArrayList<>();  
        x.add(10);  
        x.add("30");  
        System.out.println(x);  
    }  
}
```

B)

```
class L2 {  
    public void m(int x) {  
        var x = 10;  
    }  
}
```

C)

```
class A {}  
class B extends A {}  
class L4 {  
    public static void main(String[] args) {  
        var x = new A();  
        x = new B();  
    }  
}
```

D)

```
class L3 {  
    public static void main(String[] args) {  
        var a = 10;  
        a = "30";  
    }  
}
```

E)

```
class L5 {  
    public void m() {  
        var strVar = null;  
    }  
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Answer: BE**Explanation:**

The two code fragments that compile are B and E. These are the only ones that use the correct syntax for declaring and initializing a var variable. The var keyword is a reserved type name that allows the compiler to infer the type of the variable based on the initializer expression. However, the var variable must have an initializer, and the initializer must not be null or a lambda expression. Therefore, option A is invalid because it does not have an initializer, option C is invalid because it has a null initializer, and option D is invalid because it has a lambda expression as an initializer. Option B is valid because it has a String initializer, and option E is valid because it has an int initializer. <https://docs.oracle.com/en/java/javase/17/language/local-variable-type-inference.html>

NEW QUESTION 9

Given:

```
public enum Desig {  
    CEO('A'), CMO('B'), CTO('C'), CFO('D');  
    char c;  
    private Desig(char c) {  
        this.c = c;  
    }  
}
```

and the code fragment:

```
Arrays.stream(Desig.values()).dropWhile(s -> s.equals(Desig.CMO));  
switch (Desig.valueOf("CMO")) {  
    case CEO -> System.out.println("Executive");  
    case CMO -> System.out.println("Marketing");  
    case CFO -> System.out.println("Finance");  
    case CTO -> System.out.println("Technical");  
    default -> System.out.println("UnDefined");  
}
```

What is the result

- A. Marketing Finance Technical
- B. Marketing Undefined
- C. UnDefined
- D. Marketing

Answer: C**Explanation:**

The code fragment is using the switch statement with the new Java 17 syntax. The switch statement checks the value of the variable `desig` and executes the corresponding case statement. In this case, the value of `desig` is `??CTO??`, which does not match any of the case labels. Therefore, the default case statement is executed, which prints `??Undefined??`. The other case statements are not executed, because there is no fall through in the new syntax. Therefore, the output of the code fragment is: Undefined

NEW QUESTION 10

Which statement is true about migration?

- A. Every module is moved to the module path in a top-down migration.
- B. Every module is moved to the module path in a bottom-up migration.
- C. The required modules migrate before the modules that depend on them in a top-down migration.
- D. Unnamed modules are automatic modules in a top-down migration.

Answer: B**Explanation:**

The answer is B because a bottom-up migration is a strategy for modularizing an existing application by moving its dependencies to the module path one by one, starting from the lowest-level libraries and ending with the application itself. This way, each module can declare its dependencies on other modules using the `module-info.java` file, and benefit from the features of the Java Platform Module System (JPMS), such as reliable configuration, strong encapsulation, and service loading.

Option A is incorrect because a top-down migration is a strategy for modularizing an existing application by moving it to the module path first, along with its dependencies as automatic modules. Automatic modules are non-modular JAR files that are treated as modules with some limitations, such as not having a module descriptor or a fixed name. A top-down migration allows the application to use the module path without requiring all of its dependencies to be modularized first.

Option C is incorrect because a top-down migration does not require any specific order of migrating modules, as long as the application is moved first and its dependencies are moved as automatic modules. A bottom-up migration, on the other hand, requires the required modules to migrate before the modules that depend on them.

Option D is incorrect because unnamed modules are not automatic modules in any migration strategy. Unnamed modules are modules that do not have a name or a module descriptor, such as classes loaded from the class path or dynamically generated classes. Unnamed modules have unrestricted access to all other modules, but they cannot be accessed by named modules, except through reflection with reduced security checks. References:

? Oracle Certified Professional: Java SE 17 Developer

? Java SE 17 Developer

? OCP Oracle Certified Professional Java SE 17 Developer Study Guide

? Migrating to Modules (How and When) - JavaDeploy

? Java 9 Modularity: Patterns and Practices for Developing Maintainable Applications

NEW QUESTION 10

Given the code fragment:

```
abstract sealed interface SInt permits Story, Art {  
    default String getTitle() { return "Book Title" ; }  
}
```

```
abstract sealed interface SInt permits Story, Art { default String getTitle() { return "Book Title" ; }  
}
```

Which set of class definitions compiles?

- A. Interface story extends STnt {} Interface Art extends SInt {}
- B. Public interface story extends slnd {} Public interface Art extends SInt {}
- C. Sealed interface Story extends sInt {} Non-sealed class Art implements Sint {}
- D. Non-sealed interface story extends SInt {} Class Art implements Sint {}
- E. Non-sealed interface story extends SInt {} Non-sealed interaface Art extends Sint {}

Answer: C

Explanation:

The answer is C because the code fragment given is an abstract sealed interface SInt that permits Story and Art. The correct answer is option C, which is a sealed interface Story that extends SInt and a non-sealed class Art that implements SInt. This is because a sealed interface can only be extended by the classes or interfaces that it permits, and a non-sealed class can implement a sealed interface.

Option A is incorrect because interface is misspelled as interace, and Story and Art should be capitalized as they are the names of the permitted classes or interfaces.

Option B is incorrect because public is misspelled as public, and slnd should be SInt as it is the name of the sealed interface.

Option D is incorrect because a non-sealed interface cannot extend a sealed interface, as it would violate the restriction of permitted subtypes.

Option E is incorrect because both Story and Art cannot be non-sealed interfaces, as they would also violate the restriction of permitted subtypes.

References:

? Oracle Certified Professional: Java SE 17 Developer

? Java SE 17 Developer

? OCP Oracle Certified Professional Java SE 17 Developer Study Guide

? Sealed Classes and Interfaces in Java 15 | Baeldung

? Sealed Class in Java - Javatpoint

NEW QUESTION 12

Given:

```
1. class Item {
2.     String name;
3.     public static void display() {
4.         name = "Vase";
5.         System.out.println(name);
6.     }
7.     public void display(String design) {
8.         this.name += name;
9.         System.out.println(name);
10.    }
11. }
12. public class App {
13.     public static void main(String[] args) {
14.         Item i1 = new Item();
15.         i1.display("Flower");
16.     }
17. }
```

Which action enables the code to compile?

- A. Replace 15 with item.display ("Flower");
- B. Replace 2 with static string name;
- C. Replace 7 with public void display (string design) {
- D. Replace 3 with private static void display () {

Answer: C

Explanation:

The answer is C because the code fragment contains a syntax error in line 7, where the method display is declared without any parameter type. This causes a compilation error, as Java requires the parameter type to be specified for each method parameter. To fix this error, the parameter type should be added before the parameter name, such as string design. This will enable the code to compile and run without any errors. References:

? Oracle Certified Professional: Java SE 17 Developer

? Java SE 17 Developer

? OCP Oracle Certified Professional Java SE 17 Developer Study Guide

? Java Methods

NEW QUESTION 13

Given the code fragment:

```
int a = 2;
int b = ~a;
int c = a^b;
boolean d = a < b & a > c++;
System.out.println(d + " " + c);
boolean e = a > b && a > c++;
System.out.println(e + " " + c);
```

What is the result?

- A. false 1false 2
- B. true 1false 2
- C. false 1ture 2
- D. falase 0true 1

Answer: B

Explanation:

The code fragment is comparing the values of a, b, and c using the < and > operators. The first comparison, d, is checking if a is less than b and greater than c. Since a is equal to 2, b is equal to -2, and c is equal to -4, this comparison will evaluate to true. The second comparison, e, is checking if a is greater than b and a is greater than c. Since a is equal to 2, b is equal to -2, and c is equal to -4, this comparison will evaluate to false. Therefore, the result will be true 1 false 2. References: Operators (The Java™ Tutorials > Learning the Java Language - Oracle)

NEW QUESTION 14

Given the code fragment:

```
// line n1
String input = console.readLine("Input a number: ");
int number = Integer.parseInt(input);

if (number % 2 == 0) {
    System.out.println(number + " is even.");
} else {
    System.out.println(number + " is odd");
}
```

Which code line n1, obtains the java.io.Console object?

A)

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

B)

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

C)

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

D)

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

E)

```
Console console = new Console(new InputStreamReader(System.in));
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D
- E. Option E

Answer: A

Explanation:

The code fragment is trying to obtain the java.io.Console object, which is a class that provides methods to access the character-based console device, if any, associated with the current Java virtual machine. The correct way to obtain the Console object is to call the static method Console console() in the java.lang.System class. This method returns the unique Console object associated with the current Java virtual machine, if any. Therefore, option A is correct, as it calls System.console() and assigns it to a Console variable. References:

- ? <https://docs.oracle.com/javase/17/docs/api/java.base/java/io/Console.html>
- ? [https://docs.oracle.com/javase/17/docs/api/java.base/java/lang/System.html#console\(\)](https://docs.oracle.com/javase/17/docs/api/java.base/java/lang/System.html#console())
- ? https://education.oracle.com/products/trackp_OCPJSE17
- ? <https://mylearn.oracle.com/ou/learning-path/java-se-17-developer/99487>

NEW QUESTION 17

Given the course table:

COURSE_ID	COURSE_NAME	COURSE_FEE	COURSE_LEVEL
1021	Java Programmer	400.00	1
1022	Java Architect	600.00	2
1023	Java Master	600.00	2

Given the code fragment:

```
try (Connection con = DriverManager.getConnection(connectionString)) {
    Statement statement = con.createStatement(TYPE_SCROLL_INSENSITIVE,ResultSet.CONCUR_UPDATABLE);
    String qry = "UPDATE course SET course_fee = ? where COURSE_LEVEL = ?";
    PreparedStatement prStmt = con.prepareStatement(qry, TYPE_SCROLL_INSENSITIVE);
    prStmt.setDouble(1,600.00);
    prStmt.setInt(2,2);
    System.out.println(prStmt.executeUpdate());
}
catch(SQLException sqlException) {
    System.out.println(sqlException);
}
```

- A. 2
- B. false
- C. true
- D. 1

Answer: C

Explanation:

The code fragment will execute the update statement and set the course fee of the course with ID 1021 to 5000. The executeUpdate method returns an int value that indicates the number of rows affected by the SQL statement. In this case, only one row will be updated, so the result variable will be 1. The if statement will check if the result is greater than 0, which is true, and print ??Updated successfully??. Therefore, the output of the code fragment is true. References:

- https://education.oracle.com/products/trackp_OCPJSE17, <https://mylearn.oracle.com/ou/learning-path/java-se-17-developer/99487>,
- [https://docs.oracle.com/en/java/javase/17/docs/api/java.sql/java/sql/Statement.html#executeUpdate\(java.lang.String\)](https://docs.oracle.com/en/java/javase/17/docs/api/java.sql/java/sql/Statement.html#executeUpdate(java.lang.String))

NEW QUESTION 22

Given the content of the in. tart file: 23456789
and the code fragment:

```
char[] buffer = new char[8];
int count = 0;
try(FileReader in = new FileReader("in.txt");
    FileWriter out = new FileWriter("out.txt")) {
    while((count = in.read(buffer)) != -1) {
        out.write(buffer);
    }
}
```

What is the content of the out .txt file?

- A. 01234567801234
- B. 012345678
- C. 0123456789234567
- D. 0123456789
- E. 012345678901234
- F. 01234567

Answer: D

Explanation:

The answer is D because the code fragment reads the content of the in.txt file and writes it to the out.txt file. The content of the in.txt file is ??23456789??. The code fragment uses a char array buffer of size 8 to read the content of the in.txt file. The while loop reads the content of the in.txt file and writes it to the out.txt file until the end of the file is reached. Therefore, the content of the out.txt file will be ??0123456789??.

NEW QUESTION 24

Given:

Captions.properties file:
user = UserName

Captions_en.properties file:
user = User name (EN)

Captions_US.properties file:
message = User name (US)

Captions_en_US.properties file:
message = User name (EN - US)

and the code fragment:

```
Locale.setDefault(Locale.US);
Locale currentLocale = new Locale.Builder().setLanguage("en").build();

ResourceBundle captions = ResourceBundle.getBundle("Captions.properties", currentLocale);
System.out.println(captions.getString("user"));
```

What is the result?

- A. User name (US)
- B. The program throws a MissingResourceException.
- C. User name (EN – US)
- D. UserName
- E. User name (EN)

Answer: B

Explanation:

The answer is B because the code fragment contains a logical error that causes a MissingResourceException at runtime. The code fragment tries to load a resource bundle with the base name ??Captions.properties?? and the locale ??en_US??. However, there is no such resource bundle available in the classpath. The available resource bundles are:

- ? Captions.properties
- ? Captions_en.properties
- ? Captions_US.properties
- ? Captions_en_US.properties

The ResourceBundle class follows a fallback mechanism to find the best matching resource bundle for a given locale. It first tries to find the resource bundle with

the exact locale, then it tries to find the resource bundle with the same language and script, then it tries to find the resource bundle with the same language, and finally it tries to find the default resource bundle with no locale. If none of these resource bundles are found, it throws a `MissingResourceException`.

In this case, the code fragment is looking for a resource bundle with the base name `??Captions.properties??` and the locale `??en_US??`. The `ResourceBundle` class will try to find the following resource bundles in order:

? `Captions.properties_en_US`

? `Captions.properties_en`

? `Captions.properties`

However, none of these resource bundles exist in the classpath. Therefore, the `ResourceBundle` class will throw a `MissingResourceException`.

To fix this error, the code fragment should use the correct base name of the resource bundle family, which is `??Captions??` without the `??.properties??` extension.

For example: `ResourceBundle captions = ResourceBundle.getBundle(??Captions??, currentLocale);` This will load the appropriate resource bundle for the current locale, which is `??Captions_en_US.properties??` in this case. References:

? Oracle Certified Professional: Java SE 17 Developer

? Java SE 17 Developer

? OCP Oracle Certified Professional Java SE 17 Developer Study Guide

? `ResourceBundle` (Java Platform SE 8)

? About the `ResourceBundle` Class (The Java™ Tutorials > Internationalization)

NEW QUESTION 26

Given the code fragment:

```
List<String> specialDays = List.of("NewYear", "Valentines", "Spring", "Labour");
System.out.print(specialDays.stream().allMatch(s -> s.equals("Labour")));
System.out.print(" " + specialDays.stream().anyMatch(s -> s.equals("Labour")));
System.out.print(" " + specialDays.stream().noneMatch(s -> s.equals("Halloween")));
System.out.print(" " + specialDays.stream().findFirst());
```

What is the result?

A. False true true optional (Newyear)

B. 0110

C. True true false NewYear

D. 010 optional (Newyear)

Answer: A

Explanation:

The code fragment is using the stream methods `allMatch`, `anyMatch`, `noneMatch`, and `findFirst` on a list of strings called `specialDays`. These methods are used to perform matching operations on the elements of a stream, such as checking if all, any, or none of the elements satisfy a given predicate, or finding the first element that matches a predicate¹. The predicate in this case is that the string equals `??Labour??` or `??Halloween??`. The output will be:

? False: because not all of the elements in `specialDays` are equal to `??Labour??` or `??Halloween??`.

? true: because at least one of the elements in `specialDays` is equal to `??Labour??` or `??Halloween??`.

? true: because none of the elements in `specialDays` are equal to both `??Labour??` and `??Halloween??`.

? `Optional[NewYear]`: because the first element in `specialDays` that matches the predicate is `??NewYear??`, and the `findFirst` method returns an `Optional` object that may or may not contain a non-null value².

References: `Stream` (Java SE 17 & JDK 17), `Optional` (Java SE 17 & JDK 17)

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