

Oracle

Exam Questions 1z0-830

Java SE 21 Developer Professional



NEW QUESTION 1

```
Given: java
public class Test {
    class A {
    }
    static class B {
    }
    public static void main(String[] args) {
        // Insert here
    }
}
```

Which three of the following are valid statements when inserted into the given program?

- A. A a = new A();
- B. B b = new Test.B();
- C. A a = new Test.A();
- D. B b = new Test().new B();
- E. B b = new B();
- F. A a = new Test().new A();

Answer: BEF

NEW QUESTION 2

```
Given: java
List<String> frenchAuthors = new ArrayList<>(); frenchAuthors.add("Victor Hugo"); frenchAuthors.add("Gustave Flaubert");
Which compiles?
```

- A. Map<String, ArrayList<String>> authorsMap1 = new HashMap<>();javaauthorsMap1.put("FR", frenchAuthors);
- B. Map<String, ? extends List<String>> authorsMap2 = new HashMap<String, ArrayList<String>>();javaauthorsMap2.put("FR", frenchAuthors);
- C. var authorsMap3 = new HashMap<>();javaauthorsMap3.put("FR", frenchAuthors);
- D. Map<String, List<String>> authorsMap4 = new HashMap<String, ArrayList<String>>();javaauthorsMap4.put("FR", frenchAuthors);
- E. Map<String, List<String>> authorsMap5 = new HashMap<String, List<String>>();javaauthorsMap5.put("FR", frenchAuthors);

Answer: CDE

NEW QUESTION 3

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

Answer: C

NEW QUESTION 4

```
Given: java
Period p = Period.between( LocalDate.of(2023, Month.MAY, 4),
LocalDate.of(2024, Month.MAY, 4)); System.out.println(p);
Duration d = Duration.between( LocalDate.of(2023, Month.MAY, 4),
LocalDate.of(2024, Month.MAY, 4)); System.out.println(d);
What is the output?
```

- A. P1Y PT8784H
- B. PT8784H P1Y
- C. UnsupportedOperationException
- D. P1YUnsupportedTemporalTypeException

Answer: D

NEW QUESTION 5

A module com.eiffeltower.shop with the related sources in the src directory.
That module requires com.eiffeltower.membership, available in a JAR located in the lib directory.
What is the command to compile the module com.eiffeltower.shop?

- A. `bashCopyEditjavac -source src -p lib/com.eiffel.membership.jar -d out -m com.eiffeltower.shop`
- B. `css CopyEditjavac --module-source-path src -p lib/com.eiffel.membership.jar -d out -m com.eiffeltower.shop`
- C. `css CopyEditjavac --module-source-path src -p lib/com.eiffel.membership.jar -s out -m com.eiffeltower.shop`
- D. `css CopyEditjavac -path src -p lib/com.eiffel.membership.jar -d out -m com.eiffeltower.shop`

Answer: B

NEW QUESTION 6

Which of the following statements of local variables declared with `var` are invalid?
(Choose 4)

- A. `var a = 1;` (Valid: `var` correctly infers `int`)
- B. `var b = 2, c = 3.0;`
- C. `var d[] = new int[4];`
- D. `var e;`
- E. `var f = { 6 };`
- F. `var h = (g = 7);`

Answer: BCDE

NEW QUESTION 7

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

- A. 10
- B. `_$`
- C. It throws an exception.
- D. Compilation fails.

Answer: D

NEW QUESTION 8

Given: `java`
`Optional<String> optionalName = Optional.ofNullable(null);`
`String bread = optionalName.orElse("Baguette"); System.out.print("bread:" + bread);`
`String dish = optionalName.orElseGet(() -> "Frog legs"); System.out.print(", dish:" + dish);`
`try {`
`String cheese = optionalName.orElseThrow(() -> new Exception()); System.out.println(", cheese:" + cheese);`
`} catch (Exception exc) { System.out.println(", no cheese.");`
`}`
What is printed?

- A. `bread:Baguette, dish:Frog legs, cheese.`
- B. `bread:Baguette, dish:Frog legs, no cheese.`
- C. `bread:bread, dish:dish, cheese.`
- D. Compilation fails.

Answer: B

NEW QUESTION 9

Given: `java`
`ExecutorService service = Executors.newFixedThreadPool(2); Runnable task = () -> System.out.println("Task is complete");`
`service.submit(task); service.shutdown(); service.submit(task);`
What happens when executing the given code fragment?

- A. It prints "Task is complete" once and throws an exception.
- B. It prints "Task is complete" twice and throws an exception.
- C. It exits normally without printing anything to the console.
- D. It prints "Task is complete" twice, then exits normally.
- E. It prints "Task is complete" once, then exits normally.

Answer: A

NEW QUESTION 10

Which of the following methods of `java.util.function.Predicate` are default methods?

- A. `and(Predicate<? super T> other)`
- B. `isEqual(Object targetRef)`
- C. `negate()`
- D. `not(Predicate<? super T> target)`
- E. `or(Predicate<? super T> other)`
- F. `test(T t)`

Answer: ACE

NEW QUESTION 10

Given: java
var now = LocalDate.now();
var format1 = new DateTimeFormatter(ISO_WEEK_DATE); var format2 = DateTimeFormatter.ISO_WEEK_DATE;
var format3 = new DateFormat(WEEK_OF_YEAR_FIELD);
var format4 = DateFormat.getDateInstance(WEEK_OF_YEAR_FIELD);
System.out.println(now.format(REPLACE_HERE));
Which variable prints 2025-W01-2 (present-day is 12/31/2024)?

- A. format4
- B. format2
- C. format3
- D. format1

Answer: B

NEW QUESTION 13

Which methods compile?

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

Answer: AB

NEW QUESTION 18

Which of the following doesnotexist?

- A. BooleanSupplier
- B. DoubleSupplier
- C. LongSupplier
- D. Supplier<T>
- E. BiSupplier<T, U, R>
- F. They all exist.

Answer: E

NEW QUESTION 22

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

Answer: F

NEW QUESTION 27

Given: java
import java.io.*;
class A implements Serializable { int number = 1;
}
class B implements Serializable { int number = 2;
}
public class Test {
public static void main(String[] args) throws Exception { File file = new File("o.ser");
A a = new A();
var oos = new ObjectOutputStream(new FileOutputStream(file)); oos.writeObject(a);
oos.close();
var ois = new ObjectInputStream(new FileInputStream(file));
B b = (B) ois.readObject(); ois.close(); System.out.println(b.number);
}
}
What is the given program's output?

- A. 1
- B. 2
- C. Compilation fails
- D. ClassCastException

E. NotSerializableException

Answer: D

NEW QUESTION 31

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

Answer: E

NEW QUESTION 32

Given: java
LocalDate localDate = LocalDate.of(2020, 8, 8); Date date = java.sql.Date.valueOf(localDate);
DateFormat formatter = new SimpleDateFormat(/* pattern */); String output = formatter.format(date); System.out.println(output);
It's known that the given code prints out "August 08". Which of the following should be inserted as the pattern?

- A. MM d
- B. MM dd
- C. MMMM dd
- D. MMM dd

Answer: C

NEW QUESTION 33

Which of the following can be the body of a lambda expression?

- A. Two statements
- B. An expression and a statement
- C. A statement block
- D. None of the above
- E. Two expressions

Answer: C

NEW QUESTION 36

Given: java
final Stream<String> strings = Files.readAllLines(Paths.get("orders.csv")); strings.skip(1)
.limit(2)
.forEach(System.out::println);
And that the orders.csv file contains: mathematica
OrderID,Customer,Product,Quantity,Price 1,Kylian Mbapp??,Keyboard,2,25.50 2,Teddy Riner,Mouse,1,15.99 3,Sebastien Loeb,Monitor,1,199.99 4,Antoine Griezmann,Headset,3,45.00 What is printed?

- A. arduino1,Kylian Mbapp??,Keyboard,2,25.50 2,Teddy Riner,Mouse,1,15.993,Sebastien Loeb,Monitor,1,199.99 4,Antoine Griezmann,Headset,3,45.00
- B.arduino1,Kylian Mbapp??,Keyboard,2,25.50 2,Teddy Riner,Mouse,1,15.99
- B. arduino2,Teddy Riner,Mouse,1,15.99 3,Sebastien Loeb,Monitor,1,199.99
- C. An exception is thrown at runtime.
- D. Compilation fails.

Answer: DE

NEW QUESTION 37

Given: java
Object input = 42;
String result = switch (input) {
case String s -> "It's a string with value: " + s; case Double d -> "It's a double with value: " + d; case Integer i -> "It's an integer with value: " + i;
};
System.out.println(result); What is printed?

- A. null
- B. It's a string with value: 42
- C. It's a double with value: 42
- D. It's an integer with value: 42
- E. It throws an exception at runtime.

F. Compilation fails.

Answer: F

NEW QUESTION 39

What do the following print? java

```
public class Main {  
    int instanceVar = staticVar; static int staticVar = 666;  
    public static void main(String args[]) {  
        System.out.printf("%d %d", new Main().instanceVar, staticVar);  
    }  
    static { staticVar = 42;  
    }  
}
```

- A. 666 42
- B. 666 666
- C. 42 42
- D. Compilation fails

Answer: C

NEW QUESTION 41

Given: java

```
Map<String, Integer> map = Map.of("b", 1, "a", 3, "c", 2); TreeMap<String, Integer> treeMap = new TreeMap<>(map); System.out.println(treeMap);
```

What is the output of the given code fragment?

- A. {c=2, a=3, b=1}
- B. {b=1, a=3, c=2}
- C. {b=1, c=2, a=3}
- D. {c=1, b=2, a=3}
- E. Compilation fails
- F. {a=3, b=1, c=2}
- G. {a=1, b=2, c=3}

Answer: F

NEW QUESTION 46

Given: java

```
package com.vv;  
import java.time.LocalDate; public class FetchService {  
    public static void main(String[] args) throws Exception { FetchService service = new FetchService();  
    String ack = service.fetch(); LocalDate date = service.fetch();  
    System.out.println(ack + " the " + date.toString());  
    }  
    public String fetch() { return "ok";  
    }  
    public LocalDate fetch() { return LocalDate.now();  
    }  
}
```

What will be the output?

- A. ok the 2024-07-10T07:17:45.523939600
- B. Compilation fails
- C. An exception is thrown
- D. ok the 2024-07-10

Answer: B

NEW QUESTION 49

Given: java

```
Integer frenchRevolution = 1789; Object o1 = new String("1789"); Object o2 = frenchRevolution; frenchRevolution = null;  
Object o3 = o2.toString(); System.out.println(o1.equals(o3)); What is printed?
```

- A. true
- B. false
- C. A NullPointerException is thrown.
- D. A ClassCastException is thrown.
- E. Compilation fails.

Answer: A

NEW QUESTION 52

Given: java

```
var array1 = new String[]{ "foo", "bar", "buz" };  
var array2[] = { "foo", "bar", "buz" };  
var array3 = new String[3] { "foo", "bar", "buz" };  
var array4 = { "foo", "bar", "buz" };
```

String array5[] = new String[]{ "foo", "bar", "buz" }; Which arrays compile? (Select 2)

- A. array1
- B. array2
- C. array3
- D. array4
- E. array5

Answer: AE

NEW QUESTION 57

How would you create a ConcurrentHashMap configured to allow a maximum of 10 concurrent writer threads and an initial capacity of 42? Which of the following options meets this requirement?

- A. var concurrentHashMap = new ConcurrentHashMap(42);
- B. None of the suggestions.
- C. var concurrentHashMap = new ConcurrentHashMap();
- D. var concurrentHashMap = new ConcurrentHashMap(42, 10);
- E. var concurrentHashMap = new ConcurrentHashMap(42, 0.88f, 10);

Answer: E

NEW QUESTION 58

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