



Oracle

Exam Questions 1z0-830

Java SE 21 Developer Professional

NEW QUESTION 1

Given: java

```
var sList = new CopyOnWriteArrayList<Customer>();
```

Which of the following statements is correct?

- A. The CopyOnWriteArrayList class is a thread-safe variant of ArrayList where all mutative operations are implemented by making a fresh copy of the underlying array.
- B. The CopyOnWriteArrayList class is not thread-safe and does not prevent interference among concurrent threads.
- C. The CopyOnWriteArrayList class's iterator reflects all additions, removals, or changes to the list since the iterator was created.
- D. The CopyOnWriteArrayList class does not allow null elements.
- E. Element-changing operations on iterators of CopyOnWriteArrayList, such as remove, set, and add, are supported and do not throw UnsupportedOperationException.

Answer: A

NEW QUESTION 2

What does the following code print? java

```
import java.util.stream.Stream;
public class StreamReduce {
public static void main(String[] args) {
Stream<String> stream = Stream.of("J", "a", "v", "a"); System.out.print(stream.reduce(String::concat));
}
}
```

- A. Optional[Java]
- B. Java
- C. null
- D. Compilation fails

Answer: A

NEW QUESTION 3

Given: java

```
public class Versailles { int mirrorsCount;
int gardensHectares;
void Versailles() { // n1 this.mirrorsCount = 17;
this.gardensHectares = 800;
System.out.println("Hall of Mirrors has " + mirrorsCount + " mirrors."); System.out.println("The gardens cover " + gardensHectares + " hectares.");
}
public static void main(String[] args) { var castle = new Versailles(); // n2
}
}
```

What is printed?

- A. nginxHall of Mirrors has 17 mirror
- B. The gardens cover 800 hectares.
- C. Nothing
- D. An exception is thrown at runtime.
- E. Compilation fails at line n1.
- F. Compilation fails at line n2.

Answer: D

NEW QUESTION 4

Given: java

```
StringBuffer us = new StringBuffer("US"); StringBuffer uk = new StringBuffer("UK"); Stream<StringBuffer> stream = Stream.of(us, uk);
String output = stream.collect(Collectors.joining("-", "=", "")); System.out.println(output);
```

What is the given code fragment's output?

- A. US-UK
- B. An exception is thrown.
- C. -US=UK
- D. =US-UK
- E. Compilation fails.
- F. US=UK

Answer: D

NEW QUESTION 5

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 6

Given: java

```
System.out.print(Boolean.logicalAnd(1 == 1, 2 < 1));
System.out.print(Boolean.logicalOr(1 == 1, 2 < 1));
System.out.print(Boolean.logicalXor(1 == 1, 2 < 1));
```

What is printed?

- A. true>true>false
- B. false>true>true
- C. true>false>true
- D. true>true>true
- E. Compilation fails

Answer: C

NEW QUESTION 7

Given:

```
java
public class ExceptionPropagation { public static void main(String[] args) {
try { thrower();
System.out.print("Dom P??rignon, ");
} catch (Exception e) { System.out.print("Chablis, ");
} finally {
System.out.print("Saint-Émilion");
}
}
static int thrower() { try {
int i = 0; return i / i;
} catch (NumberFormatException e) { System.out.print("Ros??");
return -1;
} finally {
System.out.print("Beaujolais Nouveau, ");
}
}
}
```

What is printed?

- A. Saint-Émilion
- B. Beaujolais Nouveau, Chablis, Saint-Émilion
- C. Beaujolais Nouveau, Chablis, Dom P??rignon, Saint-Émilion
- D. Ros??

Answer: B

NEW QUESTION 8

Given:

```
var cabarets = new TreeMap<>(); cabarets.put(1, "Moulin Rouge"); cabarets.put(2, "Crazy Horse"); cabarets.put(3, "Paradis Latin"); cabarets.put(4, "Le Lido");
cabarets.put(5, "Folies Berg??re");
System.out.println(cabarets.subMap(2, true, 5, false));
```

What is printed?

- A. CopyEdit{2=Crazy Horse, 3=Paradis Latin, 4=Le Lido, 5=Folies Berg??re}
- B. {2=Crazy Horse, 3=Paradis Latin, 4=Le Lido}
- C. {}
- D. An exception is thrown at runtime.
- E. Compilation fails.

Answer: B

NEW QUESTION 9

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. Chanel
- B. Chanel Dior Louis Vuitton

- C. An `ArrayIndexOutOfBoundsException` is thrown at runtime.
- D. Compilation fails.

Answer: A

NEW QUESTION 10

You are working on a module named `perfumery.shop` that depends on another module named `perfumery.provider`. The `perfumery.shop` module should also make its package `perfumery.shop.eaudeparfum` available to other modules. Which of the following is the correct file to declare the `perfumery.shop` module?

- A. File name: `module-info.perfumery.shop.javajavamodule perfumery.shop { requires perfumery.provider; exports perfumery.shop.eaudeparfum.*; }`
- B. File name: `module-info.javajavamodule perfumery.shop { requires perfumery.provider; exports perfumery.shop.eaudeparfum; }`
- C. File name: `module.javajavamodule shop.perfumery { requires perfumery.provider; exports perfumery.shop.eaudeparfum; }`

Answer: B

NEW QUESTION 10

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 12

Given: java
`var counter = 0; do {`
`System.out.print(counter + " ");`
`} while (++counter < 3);`
What is printed?

- A. 0 1 2 3
- B. 0 1 2
- C. 1 2 3 4
- D. 1 2 3
- E. An exception is thrown.
- F. Compilation fails.

Answer: B

NEW QUESTION 16

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. C:
- B. `IllegalArgumentException`
- C. C
- D. Compilation error
- E. home

Answer: E

NEW QUESTION 21

Which of the following does not exist?

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

Answer: E

NEW QUESTION 25

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

```
try (FileOutputStream fos = new FileOutputStream("t.tmp"); ObjectOutputStream oos = new ObjectOutputStream(fos)) { fos.write("Today");  
fos.writeObject("Today"); oos.write("Today"); oos.writeObject("Today");  
} catch (Exception ex) {  
// handle exception  
}
```

Which statement compiles?

- A. fos.write("Today");
- B. fos.writeObject("Today");
- C. oos.write("Today");
- D. oos.writeObject("Today");

Answer: D

NEW QUESTION 28

Given: java

```
interface Calculable { long calculate(int i);  
}  
public class Test {  
public static void main(String[] args) { Calculable c1 = i -> i + 1; // Line 1 Calculable c2 = i -> Long.valueOf(i); // Line 2  
Calculable c3 = i -> { throw new ArithmeticException(); }; // Line 3  
}  
}
```

Which lines fail to compile?

- A. Line 1 and line 3
- B. Line 2 only
- C. Line 1 only
- D. Line 1 and line 2
- E. Line 2 and line 3
- F. Line 3 only
- G. The program successfully compiles

Answer: G

NEW QUESTION 30

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 35

Given: java

```
var ceo = new HashMap<>(); ceo.put("Sundar Pichai", "Google"); ceo.put("Tim Cook", "Apple"); ceo.put("Mark Zuckerberg", "Meta"); ceo.put("Andy Jassy",  
"Amazon"); Does the code compile?
```

- A. True
- B. False

Answer: B

NEW QUESTION 37

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

- A. Stream stream = Stream.of("a");
- B. Stream stream = Stream.ofNullable("a");
- C. Stream stream = Stream.generate(() -> "a");
- D. Stream stream = Stream.of();
- E. Stream stream = new Stream();

F. `Stream<String> stream = Stream.builder().add("a").build();`
 G. `Stream stream = Stream.empty();`

Answer: EF

NEW QUESTION 41

Given: java
`record WithInstanceField(String foo, int bar) { double fuz;`
`}`
`record WithStaticField(String foo, int bar) { static double wiz;`
`}`
`record ExtendingClass(String foo) extends Exception {}`
`record ImplementingInterface(String foo) implements Cloneable {}` Which records compile? (Select 2)

- A. ExtendingClass
- B. WithInstanceField
- C. ImplementingInterface
- D. WithStaticField

Answer: CD

NEW QUESTION 44

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 45

Given: java
`var lyrics = ""`
`Quand il me prend dans ses bras Qu'il me parle tout bas`
`Je vois la vie en rose "";`
`for (int i = 0, int j = 3; i < j; i++) { System.out.println(lyrics.lines()`
`.toList()`
`.get(i));`
`}`
 What is printed?

- A. `vbnetQuand il me prend dans ses bras Qu'il me parle tout basJe vois la vie en rose`
- B. Nothing
- C. An exception is thrown at runtime.
- D. Compilation fails.

Answer: D

NEW QUESTION 47

Given: java
`String colors = "red\n" + "green\n" +`
`"blue\n";`
 Which text block can replace the above code?

- A. `javaString colors = "" red \green\ blue \ "";`
- B. `javaString colors = "" red \sgreen\s blue \s "";`
- C. `javaString colors = "" red \tgreen\t blue \t "";`
- D. `javaString colors = "" redgreen blue "";`
- E. None of the propositions

Answer: D

NEW QUESTION 51

Given: java
`List<String> l1 = new ArrayList<>(List.of("a", "b"));`
`List<String> l2 = new ArrayList<>(Collections.singletonList("c")); Collections.copy(l1, l2);`
`l2.set(0, "d"); System.out.println(l1);`
 What is the output of the given code fragment?

- A. [a, b]
- B. [d, b]
- C. [c, b]
- D. An UnsupportedOperationException is thrown
- E. An IndexOutOfBoundsException is thrown
- F. [d]

Answer: C

NEW QUESTION 56

```
Given: java
interface A {
default void ma() {
}
}
interface B extends A { static void mb() {
}
}
interface C extends B { void ma();
void mc();
}
interface D extends C { void md();
}
interface E extends D { default void ma() {
}
default void mb() {
}
default void mc() {
}
}
```

Which interface can be the target of a lambda expression?

- A. None of the above
- B. C
- C. A
- D. E
- E. B
- F. D

Answer: A

NEW QUESTION 61

```
Given: java
package vehicule.parent;
public class Car {
protected String brand = "Peugeot";
}
and java
package vehicule.child; import vehicule.parent.Car;
public class MiniVan extends Car { public static void main(String[] args) { Car car = new Car();
car.brand = "Peugeot 807"; System.out.println(car.brand);
}
}
```

What is printed?

- A. Peugeot
- B. Peugeot 807
- C. An exception is thrown at runtime.
- D. Compilation fails.

Answer: D

NEW QUESTION 64

```
Given: java
var deque = new ArrayDeque<>(); deque.add(1);
deque.add(2);
deque.add(3);
deque.add(4);
deque.add(5); System.out.print(deque.peek() + " "); System.out.print(deque.poll() + " "); System.out.print(deque.pop() + " "); System.out.print(deque.element() + " "); What is printed?
```

- A. 1 1 1 1
- B. 1 5 5 1
- C. 1 1 2 3
- D. 1 1 2 2
- E. 5 5 2 3

Answer: C

NEW QUESTION 65

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 66

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