

Exam Questions 1z0-830

Java SE 21 Developer Professional

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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

Given: java

```
var frenchCities = new TreeSet<String>(); frenchCities.add("Paris"); frenchCities.add("Marseille"); frenchCities.add("Lyon"); frenchCities.add("Lille"); frenchCities.add("Toulouse");
```

```
System.out.println(frenchCities.headSet("Marseille"));
```

 What will be printed?

- A. [Paris]
- B. [Paris, Toulouse]
- C. [Lille, Lyon]
- D. Compilation fails
- E. [Lyon, Lille, Toulouse]

Answer: C

NEW QUESTION 3

Given: java

```
Runnable task1 = () -> System.out.println("Executing Task-1"); Callable<String> task2 = () -> { System.out.println("Executing Task-2"); return "Task-2 Finish."; };
```

```
ExecutorService execService = Executors.newCachedThreadPool();
```

```
// INSERT CODE HERE
```

```
execService.awaitTermination(3, TimeUnit.SECONDS); execService.shutdownNow();
```

Which of the following statements, inserted in the code above, prints both:

"Executing Task-2" and "Executing Task-1"?

- A. execService.call(task1);
- B. execService.call(task2);
- C. execService.execute(task1);
- D. execService.execute(task2);
- E. execService.run(task1);
- F. execService.run(task2);
- G. execService.submit(task1);
- H. execService.submit(task2);

Answer: GH

NEW QUESTION 4

Given: java

```
void verifyNotNull(Object input) { boolean enabled = false; assert enabled = true; assert enabled; System.out.println(input.toString()); assert input != null; }
```

When does the given method throw a NullPointerException?

- A. A NullPointerException is never thrown
- B. Only if assertions are enabled and the input argument is null
- C. Only if assertions are disabled and the input argument is null
- D. Only if assertions are enabled and the input argument isn't null
- E. Only if assertions are disabled and the input argument isn't null

Answer: C

NEW QUESTION 5

Which three of the following are correct about the Java module system?

- A. Code in an explicitly named module can access types in the unnamed module.
- B. The unnamed module exports all of its packages.
- C. If a package is defined in both a named module and the unnamed module, then the package in the unnamed module is ignored.
- D. We must add a module descriptor to make an application developed using a Java version prior to SE9 run on Java 11.
- E. The unnamed module can only access packages defined in the unnamed module.
- F. If a request is made to load a type whose package is not defined in any known module, then the module system will attempt to load it from the classpath.

Answer: BCF

NEW QUESTION 6

Which of the following suggestions compile?(Choose two.)

- A. javasealed class Figure permits Rectangle {} final class Rectangle extends Figure { float length, width;}
- B. javasealed class Figure permits Rectangle {} public class Rectangle extends Figure { float length, width;}
- C. javapublic sealed class Figure permits Circle, Rectangle {}final sealed class Circle extends Figure { float radius;}non-sealed class Rectangle extends Figure { float length, width;}
- D. javapublic sealed class Figurepermits Circle, Rectangle {}final class Circle extends Figure { float radius;}non-sealed class Rectangle extends Figure { float length, width;}

Answer: AD

NEW QUESTION 7

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 8

Which of the following statements oflocal variables declared with varareinvalid?
(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 9

Given: java
List<Integer> integers = List.of(0, 1, 2); integers.stream()
.peek(System.out::print)
.limit(2)
.forEach(i -> {});
What is the output of the given code fragment?

- A. Compilation fails
- B. An exception is thrown
- C. 01
- D. 012
- E. Nothing

Answer: C

NEW QUESTION 10

Given: java
String textBlock = "" j \ a \t v \s a \ "";
System.out.println(textBlock.length()); What is the output?

- A. 11
- B. 12
- C. 14
- D. 10

Answer: B

NEW QUESTION 10

Given: java
CopyOnWriteArrayList<String> list = new CopyOnWriteArrayList<>(); list.add("A");
list.add("B");
list.add("C");
// Writing in one thread new Thread() -> {
list.add("D"); System.out.println("Element added: D");
}.start();
// Reading in another thread new Thread() -> {
for (String element : list) { System.out.println("Read element: " + element);

```
}  
}).start();  
What is printed?
```

- A. It prints all elements, including changes made during iteration.
- B. It prints all elements, but changes made during iteration may not be visible.
- C. It throws an exception.
- D. Compilation fails.

Answer: B

NEW QUESTION 11

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 13

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.getInstance(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 15

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 17

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

Answer: F

NEW QUESTION 22

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 27

Given: java
List<Long> cannesFestivalfeatureFilms = LongStream.range(1, 1945)
.boxed()
.toList();
try (var executor = Executors.newVirtualThreadPerTaskExecutor()) { cannesFestivalfeatureFilms.stream()
.limit(25)
.forEach(film -> executor.submit(() -> { System.out.println(film);
}));
}
What is printed?

- A. Numbers from 1 to 25 sequentially
- B. Numbers from 1 to 25 randomly
- C. Numbers from 1 to 1945 randomly
- D. An exception is thrown at runtime
- E. Compilation fails

Answer: B

NEW QUESTION 30

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 33

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