



**Oracle**

## **Exam Questions 1z0-830**

Java SE 21 Developer Professional

#### NEW QUESTION 1

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 2

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 3

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 4

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, printsboth: "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 5

What do the following print? java

```
import java.time.Duration;
public class DividedDuration {
    public static void main(String[] args) { var day = Duration.ofDays(2); System.out.print(day.dividedBy(8));
    }
}
```

- A. PT6H
- B. PT0H
- C. It throws an exception
- D. PT0D
- E. Compilation fails

**Answer:** A

#### NEW QUESTION 6

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 7

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 8

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 9

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 10

Which of the following java.io.Console methods doesnotexist?

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

**Answer:** A

#### NEW QUESTION 10

Given:

```
java
public static void main(String[] args) { try {
throw new IOException();
} catch (IOException e) {
throw new RuntimeException();
} finally {
throw new ArithmeticException();
}
}
```

What is the output?

- A. Compilation fails
- B. IOException
- C. RuntimeException
- D. ArithmeticException

**Answer:** D

#### NEW QUESTION 14

Given: java

```
int post = 5; int pre = 5;
int postResult = post++ + 10; int preResult = ++pre + 10;
System.out.println("postResult: " + postResult +
", preResult: " + preResult +
", Final value of post: " + post + ", Final value of pre: " + pre);
```

 What is printed?

- A. postResult: 15, preResult: 16, Final value of post: 6, Final value of pre: 6
- B. postResult: 16, preResult: 16, Final value of post: 6, Final value of pre: 6
- C. postResult: 15, preResult: 16, Final value of post: 5, Final value of pre: 6
- D. postResult: 16, preResult: 15, Final value of post: 6, Final value of pre: 5

**Answer:** A

#### NEW QUESTION 15

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 19

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 22

Which of the following isn't a valid option of the `jdeps` command?

- A. `--check-deps`
- B. `--generate-open-module`
- C. `--list-deps`
- D. `--generate-module-info`
- E. `--print-module-deps`
- F. `--list-reduced-deps`

**Answer:** A

#### NEW QUESTION 24

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 29

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 31

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 34

Given: `java`  
`DoubleSummaryStatistics stats1 = new DoubleSummaryStatistics(); stats1.accept(4.5);`  
`stats1.accept(6.0);`  
`DoubleSummaryStatistics stats2 = new DoubleSummaryStatistics(); stats2.accept(3.0);`  
`stats2.accept(8.5);`  
`stats1.combine(stats2);`  
`System.out.println("Sum: " + stats1.getSum() + ", Max: " + stats1.getMax() + ", Avg: " + stats1.getAverage());`  
What is printed?

- A. Sum: 22.0, Max: 8.5, Avg: 5.5
- B. Sum: 22.0, Max: 8.5, Avg: 5.0
- C. An exception is thrown at runtime.
- D. Compilation fails.

**Answer:** A

#### NEW QUESTION 37

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 41

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 45

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 48

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

**Answer:** B

#### NEW QUESTION 49

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 51

Which of the following is not a correct way to write a string to a file?

- A. javaPath path = Paths.get("file.txt"); byte[] strBytes = "Hello".getBytes(); Files.write(path, strBytes);
- B. java try (BufferedWriter writer = new BufferedWriter("file.txt")) { writer.write("Hello");}
- C. java try (FileOutputStream outputStream = new FileOutputStream("file.txt")) { byte[] strBytes = "Hello".getBytes(); outputStream.write(strBytes);}
- D. java try (PrintWriter printWriter = new PrintWriter("file.txt")) { printWriter.printf("Hello %s", "James");}
- E. None of the suggestions
- F. java try (FileWriter writer = new FileWriter("file.txt")) { writer.write("Hello");}

**Answer:** B

#### NEW QUESTION 53

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 54

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 59

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 61

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 65

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 68

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 70

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 72

Which of the following statements is correct about a final class?

- A. The final keyword in its declaration must go right before the class keyword.
- B. It must contain at least a final method.
- C. It cannot be extended by any other class.
- D. It cannot implement any interface.
- E. It cannot extend another class.

**Answer:** C

#### NEW QUESTION 76

Given: java  
public class SpecialAddition extends Addition implements Special { public static void main(String[] args) {  
System.out.println(new SpecialAddition().add());  
}  
int add() {  
return --foo + bar--;  
}  
}  
class Addition { int foo = 1;  
}  
interface Special { int bar = 1;  
}  
What is printed?

- A. 1
- B. 2
- C. It throws an exception at runtime.
- D. Compilation fails.

**Answer:** E

#### NEW QUESTION 77

Given: java  
DoubleStream doubleStream = DoubleStream.of(3.3, 4, 5.25, 6.66); Predicate<Double> doublePredicate = d -> d < 5;  
System.out.println(doubleStream.anyMatch(doublePredicate)); What is printed?

- A. Compilation fails
- B. true
- C. false
- D. An exception is thrown at runtime
- E. 3.3

**Answer:** A

#### NEW QUESTION 82

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 87

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