

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. ngxinHall 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

```
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 4

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 5

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 6

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 7

Which of the following statements are correct?

A. You can use 'private' access modifier with all kinds of classes
B. You can use 'protected' access modifier with all kinds of classes
C. You can use 'public' access modifier with all kinds of classes
D. You can use 'final' modifier with all kinds of classes
E. None

Answer: E

NEW QUESTION 8

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. UnsupportedTemporalTypeException
D. P1YUnsupportedTemporalTypeException

Answer: D

NEW QUESTION 9

Given: java

```
List<String> abc = List.of("a", "b", "c"); abc.stream()  
.forEach(x -> {  
    x = x.toUpperCase();  
});  
abc.stream()  
.forEach(System.out::print); What is the output?
```

A. abc
B. An exception is thrown.
C. Compilation fails.
D. ABC

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 10

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

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 19

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 23

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 27

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 29

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 32

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 35

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 38

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 40

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 42

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 46

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 51

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 53

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 54

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 57

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 58

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 61

Given: java

```
public class Test {
public static void main(String[] args) throws IOException { Path p1 = Path.of("f1.txt");
Path p2 = Path.of("f2.txt"); Files.move(p1, p2); Files.delete(p1);
}
}
```

In which case does the given program throw an exception?

- A. Neither files f1.txt nor f2.txt exist
- B. Both files f1.txt and f2.txt exist
- C. An exception is always thrown
- D. File f2.txt exists while file f1.txt doesn't
- E. File f1.txt exists while file f2.txt doesn't

Answer: C

NEW QUESTION 63

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 65

Given: java

```
double amount = 42_000.00;
NumberFormat format = NumberFormat.getCompactNumberInstance(Locale.FRANCE, NumberFormat.Style.SHORT);
System.out.println(format.format(amount)); What is the output?
```

- A. 42000E
- B. 42 000,00 €
- C. 42000
- D. 42 k

Answer: D

NEW QUESTION 69

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 73

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 76

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 81

Given: java

```
Optional o1 = Optional.empty(); Optional o2 = Optional.of(1); Optional o3 = Stream.of(o1, o2)
.filter(Optional::isPresent)
.findAny()
.flatMap(o -> o); System.out.println(o3.orElse(2));
```

What is the given code fragment's output?

- A. 1
- B. 2
- C. Optional.empty
- D. An exception is thrown
- E. Optional[1]
- F. Compilation fails

Answer: A

NEW QUESTION 84

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 87

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 92

Given: java

```
public class BoomBoom implements AutoCloseable { public static void main(String[] args) {
try (BoomBoom boomBoom = new BoomBoom()) { System.out.print("bim ");
throw new Exception();
} catch (Exception e) { System.out.print("boom ");
}
}
@Override
public void close() throws Exception { System.out.print("bam ");
throw new RuntimeException();
}
}
```

What is printed?

- A. bim boom bam
- B. bim bam boom
- C. bim boom
- D. bim bam followed by an exception
- E. Compilation fails.

Answer: B

NEW QUESTION 95

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