

# 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  
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  
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 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

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 6**

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 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

```
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 9**

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 10**

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 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 14

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 15

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 17

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 19

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 22

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 27

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 29

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 30

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 32

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 33

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 38

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 43

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 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 52

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 55

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 57

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 62

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 67

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 68

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 72

What do the following print? java

```
public class DefaultAndStaticMethods { public static void main(String[] args) { WithStaticMethod.print();
}
}
interface WithDefaultMethod { default void print() { System.out.print("default");
}
}
interface WithStaticMethod extends WithDefaultMethod { static void print() {
System.out.print("static");
}
}
```

- A. nothing
- B. default
- C. Compilation fails
- D. static

Answer: D

#### NEW QUESTION 75

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