

Oracle

Exam Questions 1z0-830

Java SE 21 Developer Professional



NEW QUESTION 1

Given a properties file on the classpath named Person.properties with the content: ini
name=James And:

```
java
public class Person extends ListResourceBundle { protected Object[][] getContents() {
return new Object[][]{
{"name", "Jeanne"}
};
}
}
```

And: java

```
public class Test {
public static void main(String[] args) {
ResourceBundle bundle = ResourceBundle.getBundle("Person"); String name = bundle.getString("name"); System.out.println(name);
}
}
```

What is the given program's output?

- A. MissingResourceException
- B. Compilation fails
- C. James
- D. JeanneJames
- E. JamesJeanne
- F. Jeanne

Answer: F

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, 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

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 7

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 8

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 9

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 10

Given: java

```
public class ThisCalls { public ThisCalls() { this(true);
}
public ThisCalls(boolean flag) { this();
}
}
```

Which statement is correct?

- A. It does not compile.
- B. It throws an exception at runtime.

C. It compiles.

Answer: A

NEW QUESTION 10

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 15

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 16

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 21

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 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 27

Given: java

```
public class OuterClass {
    String outerField = "Outer field";
    class InnerClass {
        void accessMembers() { System.out.println(outerField);
    }
}
public static void main(String[] args) { System.out.println("Inner class:"); System.out.println("-----");
OuterClass outerObject = new OuterClass(); InnerClass innerObject = new InnerClass(); // n1 innerObject.accessMembers(); // n2
}
```

What is printed?

- A. markdown Inner class:-----Outer field
- B. Nothing
- C. An exception is thrown at runtime.
- D. Compilation fails at line n1.
- E. Compilation fails at line n2.

Answer: D

NEW QUESTION 28

Given: java

```
import java.io.*;
class A implements Serializable { int number = 1;
}
class B implements Serializable { int number = 2;
}
public class Test {
    public static void main(String[] args) throws Exception { File file = new File("o.ser");
    A a = new A();
    var oos = new ObjectOutputStream(new FileOutputStream(file)); oos.writeObject(a);
    oos.close();
    var ois = new ObjectInputStream(new FileInputStream(file));
    B b = (B) ois.readObject(); ois.close(); System.out.println(b.number);
}
}
```

What is the given program's output?

- A. 1
- B. 2
- C. Compilation fails
- D. ClassCastException
- E. NotSerializableException

Answer: D

NEW QUESTION 31

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 34

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

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 39

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 44

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 49

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 50

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 54

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 56

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 59

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 63

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 68

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