

1z0-816

Number: 1z0-816  
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<sup>1</sup> z0-816

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## Exam A

### QUESTION 1

Given the declaration:

```
@interface Resource {  
    String name();  
    int priority() default 0;  
}
```

Examine this code fragment:

```
/* Loc1 */ class ProcessOrders { ... }
```

Which two annotations may be applied at Loc1 in the code fragment? (Choose two.)



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- A. @Resource(priority=100)
- B. @Resource(priority=0)
- C. @Resource(name="Customer1", priority=100)
- D. @Resource(name="Customer1")
- E. @Resource

**Correct Answer:** AB

**Section:** (none)

**Explanation**

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**Explanation/Reference:**

## QUESTION 2

Given:

```
public interface TestInterface {  
    default void samplingProbeProcedure() {  
        probeProcedure();  
        System.out.println("Collect Sample");  
        System.out.println("Leave Asteroid");  
        System.out.println("Dock with Main Craft");  
    }  
    default void explosionProbeProcedure() {  
        probeProcedure();  
        System.out.println("Explode")  
    }  
}
```



Examine these requirements:

- Eliminate code duplication.
- Keep constant the number of methods other classes may implement from this interface.

Which method can be added to meet these requirements?

```
private default void probeProcedure(){
    System.out.println("Launch Probe");
    System.out.println("Land on Asteroid");
}

static void probeProcedure(){
    System.out.println("Launch Probe");
    System.out.println("Land on Asteroid");
}

private void probeProcedure(){
    System.out.println("Launch Probe");
    System.out.println("Land on Asteroid");
}
```

A.



B.

C.

```
default void probeProcedure(){
    System.out.println("Launch Probe");
    System.out.println("Land on Asteroid");
}
```

D. }

**Correct Answer: B**

**Section: (none)**

**Explanation**

Explanation/Reference:

### QUESTION 3

Given:

```
public class Main {  
    public static void main(String[] args) {  
        Thread t1 = new Thread(new MyThread());  
        Thread t2 = new Thread(new MyThread());  
        Thread t3 = new Thread(new MyThread());  
  
        t1.start();  
        t2.run();  
        t3.start();  
  
        t1.start();  
    }  
}  
class MyThread implements Runnable {  
    public void run() {  
        System.out.println("Running.");  
    }  
}
```



Which one is correct?

- A. An `IllegalThreadStateException` is thrown at run time.
- B. Three threads are created.
- C. The compilation fails.
- D. Four threads are created.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

```
0.0 time: 0.10 sec(s), memory: 0.2100 kb(mb) (s)
```

```
Running.  
Running.  
Running.
```

```
Exception in thread "main" java.lang.IllegalThreadStateException  
    at java.base/java.lang.Thread.start(Thread.java:794)  
    at Main.main(Main.java:12)
```

**QUESTION 4**

Given:

```
public class Main {  
    public static void main(String[] args) {  
        Optional<String> value = createValue();  
        String str = value.orElse ("Duke");  
        System.out.println(str);  
    }  
    static Optional<String> createValue() {  
        String s = null;  
        return Optional.ofNullable(s);  
    }  
}
```

What is the output?

- A. null
- B. A NoSuchElementException is thrown at run time.
- C. Duke
- D. A NullPointerException is thrown at run time.

**Correct Answer: C****Section: (none)****Explanation**

**Explanation/Reference:**

Explanation:

```
14
15 public class Main {
16     public static void main(String[] args) {
17         Optional<String> value = createValue();
18         String str = value.orElse ("Duke");
19         System.out.println(str);
20     }
21     static Optional<String> createValue() {
22         String s = null;
23         return Optional.ofNullable(s);
24     }
25 }
26
```

result

CPU Time: 0.15 sec(s), Memory: 32572 kilobyte(s)

Duke**QUESTION 5**

Assume ds is a DataSource and the EMP table is defined appropriately.

```
try (Connection conn = ds.getConnection();
    PreparedStatement ps = conn.prepareStatement("INSERT INTO EMP VALUES(?, ?, ?)") ) {
    ps.setObject(1, 101, JDBCType.INTEGER);
    ps.setObject(2, "SMITH", JDBCType.VARCHAR);
    ps.setObject(3, "HR", JDBCType.VARCHAR);
    ps.executeUpdate();
    ps.setInt(1, 102);
    ps.setString(2, "JONES");
    ps.executeUpdate();
}
```

What does executing this code fragment do?

- A. inserts two rows (101, 'SMITH', 'HR') and (102, 'JONES', NULL)
- B. inserts two rows (101, 'SMITH', 'HR') and (102, 'JONES', 'HR')
- C. inserts one row (101, 'SMITH', 'HR')
- D. throws a SQLException

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 6

Assuming the Widget class has a getPrice method, this code does not compile:

```
List widgets = List.of(new Widget("Basic Widget", 19.55), // line 1
                        new Widget("Enhanced Widget", 35.00),
                        new Widget("Luxury Edition Widget", 55.45));
Stream widgetStream = widgets.stream(); // line 4
widgetStream.filter(a -> a.getPrice() > 20.00) // line 5
              .forEach(System.out::println);
```

Which two statements, independently, would allow this code to compile? (Choose two.)

- A. Replace line 5 with `widgetStream.filter(a -> ((Widget)a).getPrice() > 20.00).`
- B. Replace line 1 with `List<Widget> widgetStream = widgets.stream();`.
- C. Replace line 5 with `widgetStream.filter((Widget a) -> a.getPrice() > 20.00).`
- D. Replace line 4 with `Stream<Widget> widgetStream = widgets.stream();`.

**Correct Answer:** AD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 7

Given:



```
public class Foo {  
    private final ReentrantLock lock = new ReentrantLock();  
    private State state;  
    public void foo() throws Exception {  
        try {  
            lock.lock();  
            state.mutate();  
        }  
        finally {  
            lock.unlock();  
        }  
    }  
}
```

What is required to make the `Foo` class thread safe?

- A. No change is required.
- B. Make the declaration of `lock` static.
- C. Replace the lock constructor call with `new ReentrantLock (true)`.
- D. Move the declaration of `lock` inside the `foo` method.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <https://stackoverflow.com/questions/55134811/how-to-make-java-class-thread-safe>

### QUESTION 8

Given:

```
var data = new ArrayList<>();  
data.add("Peter");  
data.add(30);  
data.add("Market Road");  
data.set(1, 25);  
data.remove(2); data.set(3,
```

```
1000L);  
System.out.print(data);
```

What is the output?

- A. [Market Road, 1000]
- B. [Peter, 30, Market Road]
- C. [Peter, 25, null, 1000]
- D. An exception is thrown at run time.

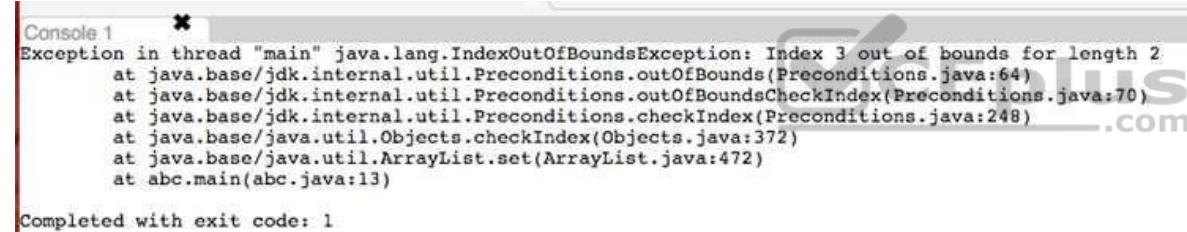
**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:



```
Console 1 *  
Exception in thread "main" java.lang.IndexOutOfBoundsException: Index 3 out of bounds for length 2  
    at java.base/jdk.internal.util.Preconditions.outOfBounds(Preconditions.java:64)  
    at java.base/jdk.internal.util.Preconditions.outOfBoundsCheckIndex(Preconditions.java:70)  
    at java.base/jdk.internal.util.Preconditions.checkIndex(Preconditions.java:248)  
    at java.base/java.util.Objects.checkIndex(Objects.java:372)  
    at java.base/java.util.ArrayList.set(ArrayList.java:472)  
    at abc.main(abc.java:13)  
  
Completed with exit code: 1
```

### QUESTION 9

Which two are successful examples of autoboxing? (Choose two.)

- A. String a = "A";
- B. Integer e = 5;
- C. Float g = Float.valueOf(null);
- D. Double d = 4;
- E. Long c = 23L;
- F. Float f = 6.0;

**Correct Answer:** AB

Section: (none)

Explanation

Explanation/Reference:

#### QUESTION 10

Given:

```
public class Hello {  
    class Greeting {  
        void sayHi() {  
            System.out.println("Hello world");  
        }  
    }  
    public static void main(String... args) {  
        // Line 1  
    }  
}
```



What code must you insert on Line 1 to enable the code to print Hello world?

- A. `Hello.Greeting myG = new Hello.Greeting()  
myG.sayHi();`
- B. `Hello myH = new Hello(); Hello.Greeting myG =  
myH.new Greeting(); myG.sayHi();`
- C. `Hello myH = new Hello();  
Hello.Greeting myG = myH.new Hello.Greeting();  
myG.sayHi();`
- D. `Hello myH = new Hello(); Greeting myG = new  
Greeting(); myG.sayHi ();`

**Correct Answer: B**

Section: (none)

Explanation

**Explanation/Reference:**

Explanation:



```
1
2 import java.io.*;
3 import java.util.*;
4 public class Hello {
5     class Greeting {
6         void sayHi() {
7             System.out.println("Hello world");
8         }
9     }
10    public static void main(String... args) {
11        Hello myH = new Hello();
12        Hello.Greeting myG = myH.new Greeting();
13        myG.sayHi();
14    }
15 }
```

Console 3

Hello world

Completed with exit code: 0

#### QUESTION 11

Given:

```
enum Color implements Serializable {  
    R(1), G(2), B(3);  
    int c;  
    public Color(int c) {  
        this.c = c;  
    }  
}
```

What action ensures successful compilation?

- A. Replace `public Color(int c)` with `private Color(int c)`.
- B. Replace `int c;` with `private int c;`.
- C. Replace `int c;` with `private final int c;`.
- D. Replace `enum Color implements Serializable` with `public enum Color`.
- E. Replace `enum Color` with `public enum Color`.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

```
1  
2 import java.io.*;  
3 import java.util.*;  
4 class Hello {  
5  
6  
7     enum Color implements Serializable {  
8         R(1), G(2), B(3);  
9         int c;  
10        private Color (int c) {  
11            this.c = c;  
12        }  
13    }  
14 }
```

**QUESTION 12** `var numbers =  
List.of(0,1,2,3,4,5,6,7,8,9);`

You want to calculate the average of `numbers`.

Which two codes will accomplish this? (Choose two.)

- A. `double avg = numbers.stream().parallel().averagingDouble(a -> a);`
- B. `double avg = numbers.parallelStream().mapToInt (m -> m).average().getAsDouble();`
- C. `double avg = numbers.stream().mapToInt (i -> i).average().parallel();`
- D. `double avg = numbers.stream().average().getAsDouble();`
- E. `double avg = numbers.stream().collect(Collectors.averagingDouble(n -> n));`

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

```
1  
2 import java.io.*;  
3 import java.util.*;  
4 class Hello {  
5     public static void main(String[] args) {  
6  
7         var numbers = List.of(0,1,2,3,4,5,6,7,8,9);  
8         double avg = numbers.parallelStream().mapToInt (m -> m).average().getAsDouble();  
9  
10    }  
11 }
```

**QUESTION 13**

Given:

```
// line 1  
List<String> fruits = new ArrayList<>(List.of("apple", "orange","banana"));  
fruits.replaceAll(function);
```



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Which statement on line 1 enables this code fragment to compile?

- A. `Function function = String::toUpperCase;`
- B. `UnaryOperator function = s -> s.toUpperCase();`
- C. `UnaryOperator<String> function = String::toUpperCase;`
- D. `Function<String> function = m -> m.toUpperCase();`

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

```
1
2 import java.io.*;
3 import java.util.*;
4 import java.util.stream.Stream;
5 import java.util.function.Function;
6 import java.util.function.UnaryOperator;
7
8 class Hello {
9     public static void main(String[] args) {
10
11         UnaryOperator<String> function = String::toUpperCase;
12         List<String> fruits = new ArrayList<>(List.of("apple", "orange", "banana"));
13         fruits.replaceAll(function);
14
15     }
16 }
17
```

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#### QUESTION 14

Given:

```
public class Main {  
    public static void main(String[] args) {  
        try (BufferedReader br = new BufferedReader(new InputStreamReader(System.in));) {  
            String input = br.readLine();  
            System.out.println ("Input String was: " + input);  
        } catch (IOException e) {  
            e.printStackTrace();  
        }  
    }  
}
```

Which is true?

- A. `System.out` is the standard output stream. The stream is open only when `System.out` is called.
- B. `System.in` cannot reassign the other stream.
- C. `System.out` is an instance of `java.io.OutputStream` by default.
- D. `System.in` is the standard input stream. The stream is already open.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.geeksforgeeks.org/java-lang-system-class-java/>

#### QUESTION 15

Given:

```
import java.util.List;
import java.util.function.BinaryOperator;
public class Main {
    public static void main(String... args) {
        List<Employee> list = List.of(new Employee("John", 80000.0), new Employee("Scott",
90000.0));
        double starts = 0.0;
        double ratio = 1.0;
        BinaryOperator<Double> bo = (a, b) -> a + b;
        double totalSalary = list.stream().map(e -> e.getSalary() * ratio).reduce(starts, bo);
        // line 1
        System.out.println("Total salary = " + totalSalary);
    }
}

class Employee {
    String name;
    double salary;
    public Employee(String name, double salary) {
        this.name = name;
        this.salary = salary;
    }
    public String getName() { return name; }
    public double getSalary() { return salary; }
}
```



Which statement is equivalent to line 1?

- A. `double totalSalary = list.stream().map(e -> e.getSalary() * ratio).reduce(bo).ifPresent (p -> p.doubleValue());`
- B. `double totalSalary = list.stream().mapToDouble(e -> e.getSalary() * ratio).sum;`
- C. `double totalSalary = list.stream().map(Employee::getSalary * ratio).reduce(bo).orElse(0.0);`
- D. `double totalSalary = list.stream().mapToDouble(e -> e.getSalary() * ratio).reduce(starts, bo);`

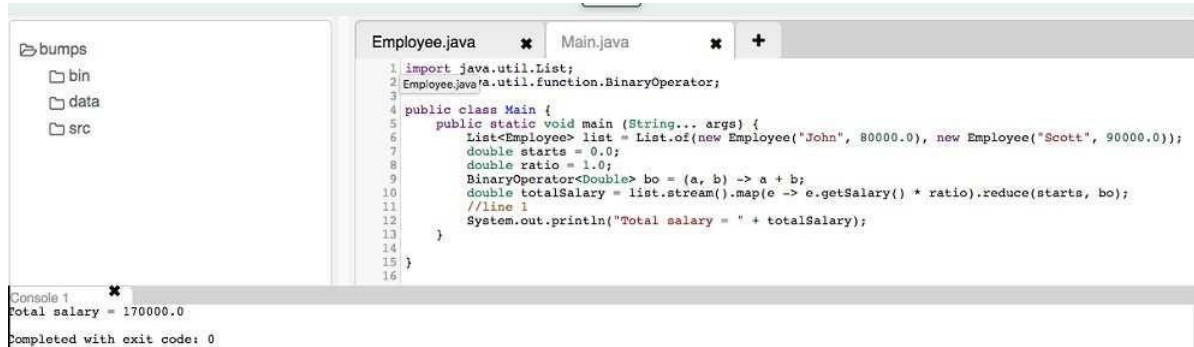
**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:



```

Employee.java  Main.java  +
1 import java.util.List;
2 Employee.java %a.util.function.BinaryOperator;
3
4 public class Main {
5     public static void main (String... args) {
6         List<Employee> list = List.of(new Employee("John", 80000.0), new Employee("Scott", 90000.0));
7         double starts = 0.0;
8         double ratio = 1.0;
9         BinaryOperator<Double> bo = (a, b) -> a + b;
10        double totalSalary = list.stream().map(e -> e.getSalary() * ratio).reduce(starts, bo);
11        //line 1
12        System.out.println("Total salary = " + totalSalary);
13    }
14
15 }
16

Console 1
Total salary = 170000.0
Completed with exit code: 0

```

## QUESTION 16

Given:

```

@Target (ElementType.METHOD)
@Retention (RetentionPolicy.RUNTIME)
public @interface AuthorInfo {
    String author() default "";
    String date();
    String[] comments() default {};
}

```



Which two are correct? (Choose two.)

```

@AuthorInfo(date="1-1-2020", comments={ null })
public class Hello {
    public void func() {}
}

public class Hello {
    @AuthorInfo (date="1-1-2020. comments="Hello")
    public void func() {}
}

```

A.

B.

```
public class Hello {  
    @AuthorInfo  
    public void func() {}  
}  
  
@AuthorInfo(date="1-1-2020")  
public class Hello {  
    public void func() {}  
}  
  
public class Hello {  
    @AuthorInfo(date="1-1-2020", author="Gandhi", comments={ "world" })  
    public void func () {}  
}
```

C.



D.

E.

**Correct Answer:** CD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

**QUESTION 17**

Given:

```
public class Main {  
    public static void main(String[] args) {  
        try {  
            Path path = Paths.get("/u01/work/filestore.txt");  
            boolean result = Files.deleteIfExists(path);  
            if(result) System.out.println(path + "is deleted.");  
            else System.out.println(path + "is not deleted.");  
        } catch(IOException e) {  
            System.out.println("Exception");  
        }  
    }  
}
```

Assume the file on path does not exist.

What is the result?

- A. The compilation fails.
- B. /u01/work/filestore.txt is not deleted.
- C. Exception
- D. /u01/work/filestore.txt is deleted.

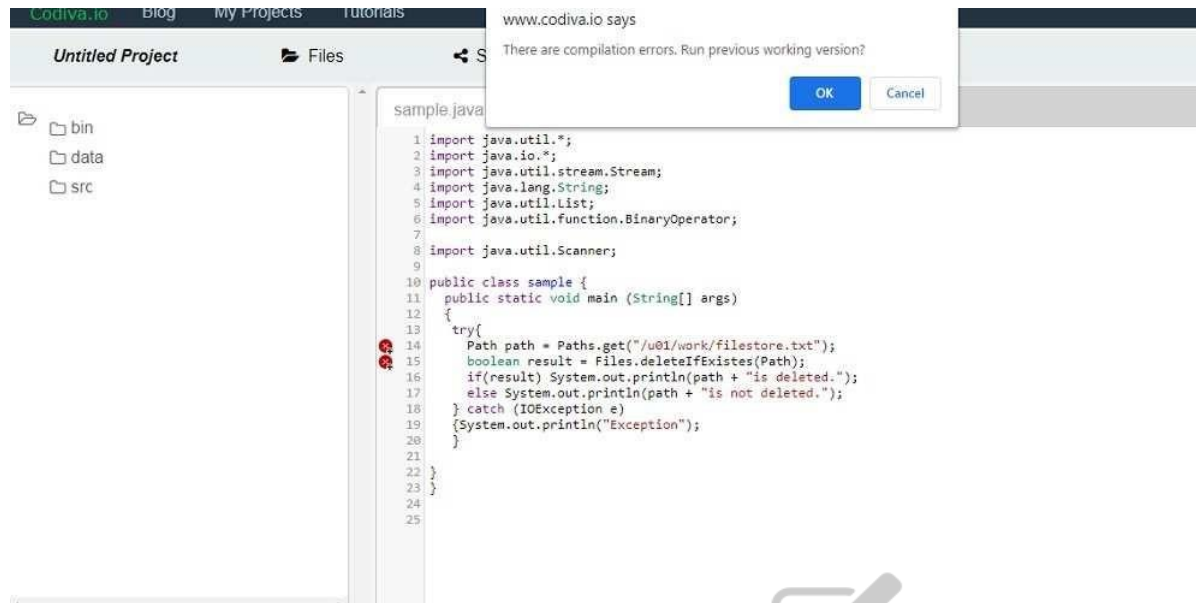
**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:



#### QUESTION 18

Given:



```
public class Tester {
    static class Person implements /* line 1 */ {
        private String name;
        Person(String name) { this.name = name; }
        /* line 2 */
    }
    public static void main(String[] args) {
        Person[] people = {new Person("Joe"),
                           new Person("Jane"),
                           new Person("John")};
        Arrays.sort(people);
        for(Person person: people) {
            System.out.println(person.name);
        }
    }
}
```

You want the code to produce this output:

John  
Joe  
Jane

Which code fragment should be inserted on line 1 and line 2 to produce the output?

A. Insert `Comparator<Person>` on line 1.

Insert

```
public int compare(Person p1, Person p2) {
    return p1.name.compare(p2.name);
} on line
```

2.

B. Insert `Comparator<Person>` on line 1.

Insert

```
public int compareTo(Person person) {
    return person.name.compareTo(this.name);
}
```

} on line

2.

C. Insert Comparable<Person> on line 1.

Insert

```
public int compare(Person p1, Person p2) {  
    return p1.name.compare(p2.name);  
}
```

} on line

2.

D. Insert Comparator<Person> on line 1.

Insert

```
public int compare(Person person) {  
    return person.name.compare(this.name);  
}
```

} on line

2.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <https://www.coursehero.com/file/p320ss6/Override-public-int-compareTo-Person-other-Compare-this-objects-name-to-others/>

### QUESTION 19

Given:

```
class CustomType<T> {  
    public <T> int count(T[] anArray, T element) {  
        int count = 0;  
        for(T e : anArray) {  
            if (e.equals(element)) ++count;  
        }  
        return count;  
    }  
}
```

and



```
public class Test extends CustomType {
    public static void main(String[] args) {
        String[] words = {"banana", "orange", "apple", "lemon"};
        Integer[] numbers = {1, 2, 3, 4, 5};
        CustomType type = new CustomType();
        CustomType<String> stringType = new CustomType<>();
        System.out.println(stringType.count(words, "apple"));
        System.out.println(type.count(words, "apple"));
        System.out.println(type.count(numbers, 3));
    }
}
```

What is the result?

- A. A `NullPointerException` is thrown at run time.
- B. The compilation fails.
- C. 1  
Null  
null
- D. 1  
1  
1
- E. A `ClassCastException` is thrown at run time.

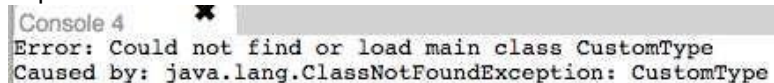
**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:



```
Console 4
Error: Could not find or load main class CustomType
Caused by: java.lang.ClassNotFoundException: CustomType
```

**QUESTION 20**

Given:

```
public class X {  
}
```

and

```
public final class Y extends X {  
}
```

What is the result of compiling these two classes?

- A. The compilation fails because there is no zero args constructor defined in class X.
- B. The compilation fails because either class X or class Y needs to implement the `toString()` method.
- C. The compilation fails because a final class cannot extend another class.
- D. The compilation succeeds.

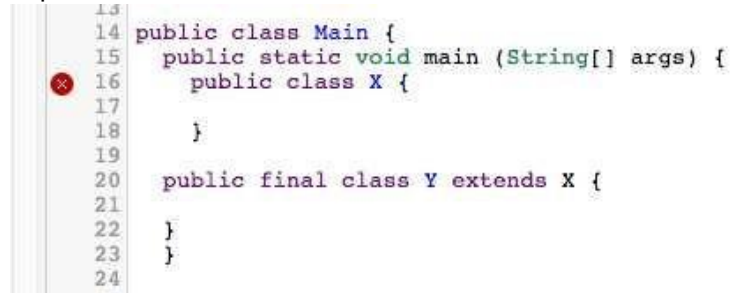
**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:



```
13  
14 public class Main {  
15     public static void main (String[] args) {  
16         public class X {  
17  
18         }  
19  
20     public final class Y extends X {  
21  
22     }  
23 }  
24
```

## QUESTION 21

Which code is correct?

- A. `Runnable r = "Message" -> System.out.println();`
- B. `Runnable r = () -> System.out::print;`

- C. Runnable r = () -> {System.out.println("Message");};
- D. Runnable r = -> System.out.println("Message");
- E. Runnable r = {System.out.println("Message")};

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Reference: <https://www.oracle.com/technical-resources/articles/java/architect-lambdas-part1.html>

## QUESTION 22

A company has an existing sales application using a Java 8 jar file containing packages:

```
com.company.customer;  
com.company.customer.orders;  
com.company.customer.info;  
com.company.sales;  
com.company.sales.leads;  
com.company.sales.closed;  
com.company.orders;  
com.company.orders.pending;  
com.company.orders.shipped.
```



To modularize this jar file into three modules, customer, sales, and orders, which module-info.java would be correct?

```
module com.company.customer {  
    opens com.company.customer;  
}  
module com.company.sales{  
    opens com.company.sales;  
}  
module com.company.orders {  
    opens com.company.orders;  
}  
A. }
```

```
module com.company.customer {
    exports com.company.customer;
}
module com.company.sales{
    exports com.company.sales;
}
module com.company.orders{
    exports com.company.orders;
}
module com.company.customer {
    requires com.company.customer;
}
module com.company.sales{
    requires com.company.sales;
}
module com.company.orders {
    requires com.company.orders;
}
module com.company.customer {
    provides com.company.customer;
}
module com.company.sales{
    provides com.company.sales;
}
module com.company.orders {
    provides com.company.orders;
}
```

B. C.

D.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://developer.ibm.com/tutorials/java-modularity-3/>

#### QUESTION 23

Which is a proper JDBC URL?

- A. `jdbe.mysql.com://localhost:3306/database`
- B. `http://localhost.mysql.com:3306/database`
- C. `http://localhost mysql.jdbc:3306/database`
- D. `jdbc:mysql://localhost:3306/database`

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://vladmihalcea.com/jdbc-driver-connection-url-strings/>

#### QUESTION 24

Given:



```
public class SerializedMessage implements Serializable {
    String message;
    LocalDateTime createdTime;
    transient LocalDateTime updatedDateTime;;
    SerializedMessage(String message) {
        this.message = message;
        this.createdTime = LocalDateTime.now();
    }
    private void readObject (ObjectInputStream in) {
        try {
            in.defaultReadObject();
            this.updatedDateTime = LocalDateTime.now();
        } catch (IOException | ClassNotFoundException e) {
            e.printStackTrace();
        }
    }
}
```



When is the `readObject` method called?

- A. before this object is deserialized
- B. after this object is deserialized
- C. before this object is serialized
- D. The method is never called.
- E. after this object is serialized

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.oracle.com/technical-resources/articles/java/javaserial.html>

## QUESTION 25

Given:

<https://vceplus.com/>

```
List<String> list1 = new ArrayList<>();  
list1.add("A"); list1.add("B"); List  
list2 = List.copyOf(list1);  
list2.add("C");  
List<List<String>> list3 = List.of(list1, list2);  
System.out.println(list3);
```

What is the result?

- A. `[[A, B], [A, B]]`
- B. An exception is thrown at run time.
- C. `[[A, B], [A, B, C]]`
- D. `[[A, B, C], [A, B, C]]`

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:



```
12 public class Main {
13     public static void main(String[] args) {
14
15         List<String> list1 = new ArrayList<>();
16         list1.add("A");
17         list1.add("B");
18         List list2 = List.copyOf(list1);
19         list2.add("C");
20         List<List<String>> list3 = List.of(list1, list2);
21         System.out.println(list3);
22     }
23 }
24 }
25
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4  ☐ Interactive Stdin Inputs

CommandLine Arguments

 Execute  

#### Result

CPU Time: 0.16 sec(s), Memory: 32128 kilobyte(s)

```
Exception in thread "main" java.lang.UnsupportedOperationException
    at java.base/java.util.ImmutableCollections.uoe(ImmutableCollections.java:71)
    at java.base/java.util.ImmutableCollections$AbstractImmutableCollection.add(ImmutableCollections.java:75)
    at Main.main(Main.java:19)
```

#### QUESTION 26

Given:



```
1. public class Secret {  
2.     String[] names;  
3.     public Secret(String[] names) {  
4.         this.names = names;  
5.     }  
6.     public String[] getNames() {  
7.         return names;  
8.     }  
9. }
```

Which three actions implement Java SE security guidelines? (Choose three.)

- A. Change line 7 to `return names.clone();`.
- B. Change line 4 to `this.names = names.clone();`.
- C. Change the `getNames()` method name to `get$Names()`.
- D. Change line 6 to `public synchronized String[] getNames() {`.
- E. Change line 2 to `private final String[] names;`.
- F. Change line 3 to `private Secret(String[] names) {`.
- G. Change line 2 to `protected volatile String[] names;`.

**Correct Answer:** EFG

**Section:** (none)

**Explanation**

**Explanation/Reference:**

## QUESTION 27

Given:

```
Integer[] intArray = {2, 1, 3, 4, 5};  
List<Integer> list =  
new ArrayList<>(Arrays.asList (intArray));  
list.parallelStream()  
    .forEach(e -> System.out.print(e + " "));
```

Which two are correct? (Choose two.)

- A. The output will be exactly 2 1 3 4 5.
- B. The program prints 1 4 2 3, but the order is unpredictable.
- C. Replacing `forEach()` with `forEachOrdered()`, the program prints 2 1 3 4 5, but the order is unpredictable.
- D. Replacing `forEach()` with `forEachOrdered()`, the program prints 1 2 3 4 5.
- E. Replacing `forEach()` with `forEachOrdered()`, the program prints 2 1 3 4 5.

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:



```
8 public class Secret {  
9     public static void main(String[] args) {  
10         Integer[] intArray = {1, 2, 3, 4, 5};  
11         List<Integer> list =  
12             new ArrayList<> (Arrays.asList (intArray));  
13         list.parallelStream()  
14             .forEachOrdered(e -> System.out.print(e + " "));  
15     }  
16 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4



CommandLine Arguments



Result

CPU Time: 0.32 sec(s), Memory: 37040 kilobyte(s)

1 2 3 4 5

QUESTION 28

Given:

```
public class Main {  
    class Student {                                // line 1  
        String classname;  
        Student(String classname) {                // line 2  
            this.classname = classname;  
        }  
    }  
    public static void main(String[] args) {  
        var student = new Student("Biology"); // line 3  
    }  
}
```

Which two independent changes will make the `Main` class compile? (Choose two.)

- A. Move the entire `Student` class declaration to a separate Java file, `Student.java`.
- B. Change line 2 to `public Student(String classname).`
- C. Change line 1 to `public class Student {.`
- D. Change line 3 to `Student student = new Student("Biology");.`
- E. Change line 1 to `static class Student {.`

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

```
1  import java.util.*;
2  import java.io.*;
3  import java.lang.Thread;
4  import java.util.ArrayList;
5  import java.util.LinkedList;
6  import java.util.List;
7  import java.util.function.Consumer;
8  import java.util.stream.Stream;
9  import java.util.stream.IntStream;
10 import java.util.Optional;
11
12
13 public class Main {
14     class Student {
15         String classname;
16         public Student (String classname) {
17             this.classname = classname;
18         }
19     }
20
21     public static void main (String[] args) {
22         var student = new Student ("Biology");
23     }
24 }
```

### QUESTION 29

Given the code fragment:

```
var pool = Executors.newFixedThreadPool(5);
Future outcome = pool.submit(() -> 1);
```

Which type of lambda expression is passed into `submit()`?

- A. `java.lang.Runnable`
- B. `java.util.function.Predicate`
- C. `java.util.function.Function`

D. `java.util.concurrent.Callable`

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.codota.com/code/java/methods/java.util.concurrent.Executors/newFixedThreadPool>

### QUESTION 30

Which two statements set the default locale used for formatting numbers, currency, and percentages? (Choose two.)

- A. `Locale.setDefault(Locale.Category.FORMAT, "zh-CN");`
- B. `Locale.setDefault(Locale.Category.FORMAT, Locale.CANADA_FRENCH);`
- C. `Locale.setDefault(Locale.SIMPLIFIED_CHINESE);`
- D. `Locale.setDefault("en_CA");`
- E. `Locale.setDefault("es", Locale.US);`

**Correct Answer:** BD

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <https://www.oracle.com/technical-resources/articles/javase/locale.html>

### QUESTION 31

Given:

```
public class Confidential implements Serializable{
    private String data;

    public Confidential(String data) {
        this.data = data;
    }
}
```

Which two are secure serialization of these objects? (Choose two.)



- A. Define the `serialPersistentFields` array field.
- B. Declare fields `transient`.
- C. Implement only `readResolve` to replace the instance with a serial proxy and not `writeReplace`.
- D. Make the class abstract.
- E. Implement only `writeReplace` to replace the instance with a serial proxy and not `readResolve`.

**Correct Answer:** AC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 32

A bookstore's sales are represented by a list of `Sale` objects populated with the name of the customer and the books they purchased.

```
public class Sale {  
    private String customer;  
    private List<Book> items;  
    // constructor, setters and getters not shown  
}
```

```
public class Book {  
    private String name;  
    private double price;  
    // constructor, setters and getters not shown  
}
```

Given a list of `Sale` objects, `tList`, which code fragment creates a list of total sales for each customer in ascending order?

```
List<String> totalByUser = tList.stream()  
    .collect(flatMapping(t -> t.getItems().stream(),  
        groupingBy(Sale::getCustomer,  
            summingDouble(Book::getPrice))))  
    .entrySet().stream()  
    .sorted(Comparator.comparing(Entry::getValue))  
A.    .collect(mapping(e -> e.getKey() + ":" + e.getValue(),toList()));
```

```
List<String> totalByUser = tList.stream()
    .collect(groupingBy(Sale::getCustomer,
        flatMapping(t -> t.getItems().stream(),
            summingDouble(Book::getPrice))))
    .sorted(Comparator.comparing(Entry::getValue))
    .collect(mapping(e -> e.getKey() + ":" + e.getValue(),toList()));

List<String> totalByUser = tList.stream()
    .collect(groupingBy(Sale::getCustomer,
        flatMapping(t -> t.getItems().stream(),
            summingDouble(Book::getPrice))))
    .entrySet().stream()
    .sorted(Comparator.comparing(Entry::getValue))
    .collect(mapping(e -> e.getKey() + ":" + e.getValue(),toList()));

List<String> totalByUser = tList.stream()
    .collect(flatMapping(t -> t.getItems().stream(),
        groupingBy(Sale::getCustomer,
            summingDouble(Book::getPrice))))
    .sorted(Comparator.comparing(Entry::getValue))
    .collect(mapping(e -> e.getKey() + ":" + e.getValue(),toList()));
```

B.

C.



D.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 33

Which three annotation uses are valid? (Choose three.)

- A. `Function<String, String> func = (@NonNull x) -> x.toUpperCase();`
- B. `var v = "Hello" + (@Interned) "World"`
- C. `Function<String, String> func = (var @NonNull x) -> x.toUpperCase();`
- D. `Function<String, String> func = (@NonNull var x) -> x.toUpperCase();`
- E. `var myString = (@NonNull String) str;`
- F. `var obj = new @Interned MyObject();`

**Correct Answer:** ACF

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 34

Given:

```
public static void main(String[] args) {  
    final List<String> fruits =  
        List.of("Orange", "Apple", "Lemmon", "Raspberry");  
    final List<String> types =  
        List.of("Juice", "Pie", "Ice", "Tart");  
    final var stream =  
        IntStream.range(0, Math.min(fruits.size(), types.size()))  
            .mapToObj((i) -> fruits.get(i) + " " + types.get(i) );  
    stream. forEach(System.out::println);  
}
```

What is the result?

- A. Orange Juice
- B. The compilation fails.
- C. Orange Juice  
Apple Pie  
Lemmon Ice  
Raspberry Tart
- D. The program prints nothing.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:



```
12 public class Person {
13     public static void main (String[] args) {
14         final List<String> fruits =
15             List.of("Orange", "Apple", "Lemmon", "raspberry");
16         final List<String> types =
17             List.of("Juice", "Pie", "Ice", "Tart");
18         final var stream =
19             IntStream.range(0, Math.min(fruits.size(), types.size()))
20                 .mapToObj ((i) -> fruits.get(i) + " " + types.get(i) );
21         stream. forEach(System.out::println);
22     }
23 }
24 }
```

#### Result

compiled and executed in 1.227 sec(s)

```
Orange Juice
Apple Pie
Lemmon Ice
raspberry Tart
```

S  
om

#### QUESTION 35

Which interface in the `java.util.function` package can return a primitive type?

- A. `ToDoubleFunction`
- B. `Supplier`
- C. `BiFunction`
- D. `LongConsumer`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://java.boot.by/ocjp8-upgrade-guide/ch02s07.html>

**QUESTION 36**

Given:

```
enum QUALITY {  
    A(100), B(75), C(50);  
    int percent;  
    private QUALITY(int percent) {  
        this.percent = percent;  
    }  
}
```

and

```
checkQuality(QUALITY.A);
```

and

```
void checkQuality(QUALITY q) {  
    switch (q) {  
        case /* Insert code here */ :  
            System.out.println("Best");  
            break;  
        default :  
            System.out.println("Not best");  
            break;  
    }  
}
```



Which code fragment can be inserted into the switch statement to print Best?

- A. `QUALITY.A.ValueOf()`
- B. `A`
- C. `A.toString()`
- D. `QUALITY.A`

**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 37

Given:

```
LocalDate dl = LocalDate.of(1997,2,7);  
DateTimeFormatter dtf =  
DateTimeFormatter.ofPattern( /*insert code here*/ );  
System.out.println(dtf.format (dl));
```

Which pattern formats the date as Friday 7th of February 1997?

- A. "eeee dd+"th of"+ MMM yyyy"
- B. "eeee dd'th of' MMM yyyy"
- C. "eeee d+"th of"+ MMMM yyyy"
- D. "eeee d'th of' MMMM yyyy"



**Correct Answer:** B

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: [https://books.google.com.pk/books?id=PmiO65T9hF0C&pg=PA385&lpg=PA385&dq=java+pattern+formats+eeee+d%2Bth+of%2B+MMMM+yyyy&source=bl&ots=IJN\\_-AnWQj&sig=ACfU3U2RjF7iuK3t\\_SKARwLSaak9xxV09A&hl=en&sa=X&ved=2ahUKEwi4m6LL3vLoAhVgTRUIHURpC38Q6AEwDHoECBQQAQ#v=onepage&q=java%20pattern%20formats%20eeee%20d%2Bth%20of%2B%20MMMM%20yyyy&f=false](https://books.google.com.pk/books?id=PmiO65T9hF0C&pg=PA385&lpg=PA385&dq=java+pattern+formats+eeee+d%2Bth+of%2B+MMMM+yyyy&source=bl&ots=IJN_-AnWQj&sig=ACfU3U2RjF7iuK3t_SKARwLSaak9xxV09A&hl=en&sa=X&ved=2ahUKEwi4m6LL3vLoAhVgTRUIHURpC38Q6AEwDHoECBQQAQ#v=onepage&q=java%20pattern%20formats%20eeee%20d%2Bth%20of%2B%20MMMM%20yyyy&f=false)

### QUESTION 38

Given this enum declaration:

```
1.enum Letter {  
2.  ALPHA(100), BETA(200), GAMMA(300);  
3.  int v;  
4.  Letter(int v) { this.v = v; }  
5.  /* Insert code here */  
6. }
```

Examine this code:

```
System.out.println(Letter.values()[1]);
```

What code should be written at line 5 for this code to print 200?

- A. `public String toString() { return String.valueOf(ALPHA.v); }`
- B. `public String toString() { return String.valueOf(Letter.values()[1]); }`
- C. `public String toString() { return String.valueOf(v); }`
- D. `String toString() { return "200"; }`

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

Explanation:

```
13 public class Main {  
14     enum Letter {  
15         ALPHA(100), BETA(200), GAMMA(300);  
16         int v;  
17         Letter(int v) { this.v = v; }  
18         public String toString() { return String.valueOf(v); }  
19     }  
20  
21  
22 }  
23 public static void main (String[] args) {  
24     System.out.println(Letter.values() [1]);  
25 }  
26 }  
27  
28
```

Result

compiled and executed in 1.099 sec(s)

200



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