

# Oracle

## Exam Questions 1Z0-809

Java SE 8 Programmer II



**NEW QUESTION 1**

Given:

```
class Sum extends RecursiveAction { //line n1 static final int THRESHOLD_SIZE = 3;
int stIndex, lstIndex; int [ ] data;
public Sum (int [ ]data, int start, int end) { this.data = data;
this stIndex = start; this. lstIndex = end;
}
protected void compute ( ) { int sum = 0;
if (lstIndex – stIndex <= THRESHOLD_SIZE) { for (int i = stIndex; i < lstIndex; i++) {
sum += data [i];
}
System.out.println(sum);
} else {
new Sum (data, stIndex + THRESHOLD_SIZE, lstIndex).fork( ); new Sum (data, stIndex,
Math.min (lstIndex, stIndex + THRESHOLD_SIZE)
).compute ();
}
}
}
```

and the code fragment:

```
ForkJoinPool fjPool = new ForkJoinPool ( ); int data [ ] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10}
fjPool.invoke (new Sum (data, 0, data.length));
and given that the sum of all integers from 1 to 10 is 55. Which statement is true?
```

- A. The program prints several values that total 55.
- B. The program prints 55.
- C. A compilation error occurs at line n1.
- D. The program prints several values whose sum exceeds 55.

**Answer: A**

**NEW QUESTION 2**

What is the result?

```
7. BiPredicate<String, String> bp = (String s1, String s2) -> s1.contains("SG") &&
   s2.contains("Java");
8. BiFunction<String, String, Integer> bf = (String s1, String s2) -> {
9.     int fee = 0;
10.    if (bp.test(s1, s2)) {
11.        fee = 100;
12.    }
13.    return fee;
14. };
15. int fee1 = bf.apply("D101SG", "Java Programming");
16. System.out.println(fee1);
```

- A. A compilation error occurs at line 7.
- B. 100
- C. A compilation error occurs at line 8.
- D. A compilation error occurs at line 15.

**Answer: A**

**NEW QUESTION 3**

Given the code fragment:

```
5. IntConsumer consumer = e -> System.out.println(e);
6. Integer value = 90;
7. /* insert code fragment here */
8. consumer.accept(result);
```

Which code fragment, when inserted at line 7, enables printing 100?

- A. Function<Integer> funRef = e -> e + 10; Integer result = funRef.apply(value);
- B. IntFunction funRef = e -> e + 10; Integer result = funRef.apply (10);
- C. ToIntFunction<Integer> funRef = e -> e + 10;int result = funRef.applyAsInt (value);
- D. ToIntFunction funRef = e -> e + 10; int result = funRef.apply (value);

**Answer: A**

**NEW QUESTION 4**

Given the code fragment:

```
Stream<Path> files = Files.walk(Paths.get(System.getProperty("user.home"))); files.forEach (fName -> { //line n1
try {
```

```
Path aPath = fName.toAbsolutePath(); //line n2 System.out.println(fName + ":"  
+ Files.readAttributes(aPath, Basic.File.Attributes.class).creationTime ());  
} catch (IOException ex) { ex.printStackTrace();  
});
```

What is the result?

- A. All files and directories under the home directory are listed along with their attributes.
- B. A compilation error occurs at line n1.
- C. The files in the home directory are listed along with their attributes.
- D. A compilation error occurs at line n2.

**Answer:** A

#### NEW QUESTION 5

Given:

```
public class Product {  
    public double applyDiscount(double price) {  
        assert (price > 0); // line n1  
        return price * 0.50;  
    }  
    public static void main(String[] args) {  
        Product p = new Product();  
        double newPrice =  
            p.applyDiscount(Double.parseDouble(args[0]));  
        System.out.println("New Price: " + newPrice);  
    }  
}
```

and the command: java Product 0 What is the result?

- A. An AssertionError is thrown.
- B. A compilation error occurs at line n1.
- C. New Price: 0.0
- D. A NumberFormatException is thrown at run time.

**Answer:** D

#### NEW QUESTION 6

Which class definition compiles?

```
A. class Vehicle {
    int id;
    public void start() {
        public class Engine { int eNo = id; }
    }
}

B. class Computer {
    private Card sCard = new SoundCard();
    private abstract class Card { }
    private class SoundCard extends Card { }
}

C. class Block {
    int bno;
    static class Counter {
        int locator;
        Counter() { locator = bno; }
    }
}

D. class Product {
    interface Moveable { void move(); }
    Moveable mProduct = new Moveable() {
        void move() { }
    };
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** A

#### NEW QUESTION 7

Given the code fragment:

```
Path p1 = Paths.get("/Pics/MyPic.jpeg"); System.out.println (p1.getNameCount() + ":" + p1.getName(1) +
":" + p1.getFileName());
```

Assume that the Pics directory does NOT exist.

What is the result?

- A. An exception is thrown at run time.
- B. 2:MyPic.jpeg: MyPic.jpeg
- C. 1:Pics:/Pics/ MyPic.jpeg
- D. 2:Pics: MyPic.jpeg

**Answer:** B

#### NEW QUESTION 8

Given the code fragment:

```
List<String> cs = Arrays.asList("Java", "Java EE", "Java ME");
// line n1
System.out.print(b);
```

Which code fragment, when inserted at line n1, ensures false is printed?

- A. boolean b = cs.stream().findAny().get().equals("Java");
- B. boolean b = cs.stream().anyMatch(w -> w.equals("Java"));
- C. boolean b = cs.stream().findFirst().get().equals("Java");
- D. boolean b = cs.stream().allMatch(w -> w.equals("Java"));

**Answer:** C

**NEW QUESTION 9**

Which two statements are true about synchronization and locks? (Choose two.)

- A. A thread automatically acquires the intrinsic lock on a synchronized statement when executed.
- B. The intrinsic lock will be retained by a thread if return from a synchronized method is caused by an uncaught exception.
- C. A thread exclusively owns the intrinsic lock of an object between the time it acquires the lock and the time it releases it.
- D. A thread automatically acquires the intrinsic lock on a synchronized method's object when entering that method.
- E. Threads cannot acquire intrinsic locks on classes.

**Answer:** AB

**NEW QUESTION 10**

Given the code fragment:

```
List<String> valList = Arrays.asList("", "George", "", "John", "Jim");
Long newVal = valList.stream()           // line n1
    .filter(x -> !x.isEmpty())
    .count();                           // line n2
System.out.print(newVal);
```

What is the result?

- A. A compilation error occurs at line n2.
- B. 3
- C. 2
- D. A compilation error occurs at line n1.

**Answer:** A

**NEW QUESTION 10**

Given the code fragment:

```
List<String> listVal = Arrays.asList("Joe", "Paul", "Alice", "Tom"); System.out.println (
// line n1
);
```

Which code fragment, when inserted at line n1, enables the code to print the count of string elements whose length is greater than three?

- A. listVal.stream().filter(x -> x.length()>3).count()
- B. listVal.stream().map(x -> x.length()>3).count()
- C. listVal.stream().peek(x -> x.length()>3).count().get()
- D. listVal.stream().filter(x -> x.length()>3).mapToInt(x -> x).count()

**Answer:** A

**NEW QUESTION 15**

Given the content:

```
MessagesBundle.properties file:

inquiry = How are you?

MessagesBundle_de_DE.properties file:

inquiry = Wie geht's?
```

and given the code fragment:

```
Locale currentLocale;
// line 1
ResourceBundle messages = ResourceBundle.getBundle("MessagesBundle", currentLocale);
System.out.println(messages.getString("inquiry"));
```

Which two code fragments, when inserted at line 1 independently, enable the code to print "Wie geht's?"

- A. currentLocale = new Locale ("de", "DE");
- B. currentLocale = new Locale.Builder ().setLanguage ("de").setRegion ("DE").build ();
- C. currentLocale = Locale.GERMAN;
- D. currentLocale = new Locale(); currentLocale.setLanguage ("de"); currentLocale.setRegion ("DE");
- E. currentLocale = Locale.getInstance(Locale.GERMAN,Locale.GERMANY);

**Answer:** B

**NEW QUESTION 16**

Given:



```
public class Foo<K, V> {  
    private K key;  
    private V value;  
  
    public Foo(K key, V value) { this.key = key; this.value = value; }  
  
    public static <T> Foo<T, T> twice(T value) { return new Foo<T, T>(value, value); }  
  
    public K getKey() { return key; }  
    public V getValue() { return value; }  
}
```

Which option fails?

- A. Foo<String, Integer> mark = new Foo<String, Integer> ("Steve", 100);
- B. Foo<String, String> pair = Foo.<String>twice ("Hello World!");
- C. Foo<Object, Object> percentage = new Foo<String, Integer>("Steve", 100);
- D. Foo<String, String> grade = new Foo <> ("John", "A");

**Answer:** A

#### NEW QUESTION 19

Given:

```
class Bird {  
    public void fly () { System.out.print("Can fly"); }  
}  
class Penguin extends Bird {  
    public void fly () { System.out.print("Cannot fly"); }  
}
```

and the code fragment:

```
class Birdie {  
    public static void main (String [ ] args) { fly( ( ) -> new Bird ( ));  
    fly (Penguin : : new);  
    }  
/* line n1 */  
}
```

Which code fragment, when inserted at line n1, enables the Birdie class to compile?

- A. static void fly (Consumer<Bird> bird) { bird :: fly ();}
- B. static void fly (Consumer<? extends Bird> bird) {bird.accept( ) fly ();}
- C. static void fly (Supplier<Bird> bird) { bird.get( ) fly ();}
- D. static void fly (Supplier<? extends Bird> bird) { LOST

**Answer:** C

#### NEW QUESTION 23

Given the code fragment:

```
public void recDelete (String dirName) throws IOException { File [ ] listOfFiles = new File (dirName) .listFiles();  
if (listOfFiles != null && listOfFiles.length >0) {  
    for (File aFile : listOfFiles) { if (aFile.isDirectory ()) {  
        recDelete (aFile.getAbsolutePath ());  
    } else {  
        if (aFile.getName ().endsWith (".class")) aFile.delete ();  
    }  
    }  
}
```

Assume that Projects contains subdirectories that contain .class files and is passed as an argument to the recDelete () method when it is invoked. What is the result?

- A. The method deletes all the .class files in the Projects directory and its subdirectories.
- B. The method deletes the .class files of the Projects directory only.
- C. The method executes and does not make any changes to the Projects directory.
- D. The method throws an IOException.

**Answer:** A

#### NEW QUESTION 27

Given the definition of the Book class:

```
public class Book {  
    private int id;  
    private String name;  
    public Book(int id, String name) {this.id = id; this.name = name;}  
    public int getId() { return id; }  
    public String getName() { return name; }  
    public void setId(int id) { this.id = id; }  
    public void setName(String name) { this.name = name; }  
}
```

Which statement is true about the Book class?

- A. It demonstrates encapsulation.
- B. It is defined using the factory design pattern.
- C. It is defined using the singleton design pattern.
- D. It demonstrates polymorphism.
- E. It is an immutable class.

**Answer:** A

#### NEW QUESTION 28

Given the content of /resources/Message.properties: welcome1="Good day!"

and given the code fragment: Properties prop = new Properties ();

FileInputStream fis = new FileInputStream ("/resources/Message.properties"); prop.load(fis);

System.out.println(prop.getProperty("welcome1")); System.out.println(prop.getProperty("welcome2", "Test")); //line n1

System.out.println(prop.getProperty("welcome3"));

What is the result?

- A. Good day!Testfollowed by an Exception stack trace
- B. Good day!followed by an Exception stack trace
- C. Good day!Test null
- D. A compilation error occurs at line n1.

**Answer:** C

#### NEW QUESTION 29

Given the structure of the Student table: Student (id INTEGER, name VARCHAR) Given the records from the STUDENT table:

ID	NAME
102	Edwin
103	Edward
103	Edwin

Given the code fragment:

```
Connection conn = DriverManager.getConnection(dbURL, userName, passWord);  
Statement st = conn.createStatement();  
String query = "DELETE FROM Student WHERE id = 103";  
System.out.println("Status: " + st.execute(query));
```

Assume that:

The required database driver is configured in the classpath.

The appropriate database is accessible with the dbURL, userName, and passWord exists. What is the result?

- A. The program prints Status: true and two records are deleted from the Student table.
- B. The program prints Status: false and two records are deleted from the Student table.
- C. A SQLException is thrown at runtime.
- D. The program prints Status: false but the records from the Student table are not deleted.

**Answer:** B

#### NEW QUESTION 31

Given the code fragments:

```
class MyThread implements Runnable {  
    private static AtomicInteger count = new AtomicInteger (0); public void run () {  
        int x = count.incrementAndGet(); System.out.print (x+" ");  
    }  
}
```

and

```
Thread thread1 = new Thread(new MyThread()); Thread thread2 = new Thread(new MyThread()); Thread thread3 = new Thread(new MyThread()); Thread [] ta =  
{thread1, thread2, thread3};  
for (int x= 0; x < 3; x++) { ta[x].start();  
}
```

Which statement is true?

- A. The program prints 1 2 3 and the order is unpredictable.
- B. The program prints 1 2 3.
- C. The program prints 1 1 1.
- D. A compilation error occurs.

**Answer:** A

#### NEW QUESTION 36

Locale	Currency Symbol	Currency Code
US	\$	USD

and the code fragment?

```
double d = 15;
Locale l = new Locale("en", "US");
NumberFormat formatter = NumberFormat.getCurrencyInstance(l);
System.out.println(formatter.format(d));
```

What is the result?

- A. \$15.00
- B. 15 \$
- C. USD 15.00
- D. USD \$15

**Answer:** A

#### NEW QUESTION 40

Given the code fragment:

```
BiFunction<Integer, Double, Integer> val = (t1, t2) -> t1 + t2; //line n1
System.out.println(val.apply(10, 10.5));
```

What is the result?

- A. 20
- B. 20.5
- C. A compilation error occurs at line n1.
- D. A compilation error occurs at line n2.

**Answer:** C

#### NEW QUESTION 45

Which statement is true about the DriverManager class?

- A. It returns an instance of Connection.
- B. it executes SQL statements against the database.
- C. It only queries metadata of the database.
- D. it is written by different vendors for their specific database.

**Answer:** A

#### Explanation:

The DriverManager returns an instance of Doctrine\DBAL\Connection which is a wrapper around the underlying driver connection (which is often a PDO instance).

#### NEW QUESTION 49

Given:

```
interface P { public void method1(); }

interface Q extends P { public void method1(); }

interface R extends P { public void method2(); }

interface S { public default void method() { } }

interface T { public void method1(); public void method2(); }

interface U { public void method1(); public abstract void method2(); }
```

Which two interfaces can you use to create lambda expressions? (Choose two.)



- A. T
- B. R
- C. P
- D. S
- E. Q
- F. U

**Answer:** AF

#### NEW QUESTION 53

In 2015, daylight saving time in New York, USA, begins on March 8th at 2:00 AM. As a result, 2:00 AM becomes 3:00 AM. Given the code fragment:

```
ZoneId zone = ZoneId.of("America/New_York");
ZonedDateTime dt = ZonedDateTime.of(LocalDate.of(2015, 3, 8), LocalTime.of(1, 0),
zone);
ZonedDateTime dt2 = dt.plusHours(2);
System.out.print(DateTimeFormatter.ofPattern("H:mm - ").format(dt2));
System.out.println("difference: " + ChronoUnit.HOURS.between(dt, dt2));
```

Which is the result?

- A. 3:00 – difference: 2
- B. 2:00 – difference: 1
- C. 4:00 – difference: 3
- D. 4:00 – difference: 2

**Answer:** B

#### NEW QUESTION 56

Given the code fragment:

```
String str = "Java is a programming language";
ToIntFunction<String> indexVal = str::indexOf; //line n1
int x = indexVal.applyAsInt("Java"); //line n2
System.out.println(x);
```

What is the result?

- A. 1
- B. A compilation error occurs at line n1.
- C. A compilation error occurs at line n2.

**Answer:** A

#### NEW QUESTION 57

Given:

```
class Student {
    String course, name, city;
    public Student(String name, String course, String city) {
        this.course = course; this.name = name; this.city = city;
    }
    public String toString() {
        return course + ":" + name + ":" + city;
    }
    public String getCourse() { return course; }
    public String getName() { return name; }
    public String getCity() { return city; }
}
```

and the code fragment:

```
List<Student> stds = Arrays.asList(
    new Student ("Jessy", "Java ME", "Chicago"),
    new Student ("Helen", "Java EE", "Houston"),
    new Student ("Mark", "Java ME", "Chicago"));
stds.stream()
    .collect(Collectors.groupingBy(Student::getCourse))
    .forEach(src, res) -> System.out.println(src);
```

What is the result?

- A. [Java EE: Helen:Houston][Java ME: Jessy:Chicago, Java ME: Mark:Chicago]  
B. Java EEJava ME  
C. [Java ME: Jessy:Chicago, Java ME: Mark:Chicago] [Java EE: Helen:Houston]  
D. A compilation error occurs.

**Answer:** D

#### NEW QUESTION 61

Given:

```
public interface LengthValidator {  
    public boolean checkLength(String str);  
}
```

and

```
public class Txt {  
    public static void main(String[] args) {  
        boolean res = new LengthValidator() {  
            public boolean checkLength(String str) {  
                return str.length() > 5 && str.length() < 10;  
            }  
        }.checkLength("Hello");  
    }  
}
```

Which interface from the java.util.function package should you use to refactor the class Txt?

- A. Consumer  
B. Predicate  
C. Supplier  
D. Function

**Answer:** C

#### NEW QUESTION 63

Given:

```
public enum USCurrency { PENNY (1),  
    NICKLE(5), DIME (10), QUARTER(25);  
    private int value;  
    public USCurrency(int value) { this.value = value;  
    }  
    public int getValue() {return value;}  
}  
public class Coin {  
    public static void main (String[] args) { USCurrency usCoin =new USCurrency.DIME; System.out.println(usCoin.getValue());  
    }  
}
```

Which two modifications enable the given code to compile? (Choose two.)

- A. Nest the USCurrency enumeration declaration within the Coin class.  
B. Make the USCurrency enumeration constructor private.  
C. Remove the new keyword from the instantiation of usCoin.  
D. Make the getter method of value as a static method.  
E. Add the final keyword in the declaration of value.

**Answer:** BC

#### NEW QUESTION 66

Given the definition of the Country class: public class country {  
 public enum Continent {ASIA, EUROPE} String name;  
 Continent region;  
 public Country (String na, Continent reg) { name = na, region = reg;  
 }  
 public String getName () {return name;} public Continent getRegion () {return region;}  
}

and the code fragment:

```
List<Country> couList = Arrays.asList (  
    new Country ("Japan", Country.Continent.ASIA), new Country ("Italy", Country.Continent.EUROPE),  
    new Country ("Germany", Country.Continent.EUROPE)); Map<Country.Continent, List<String>> regionNames = couList.stream ()  
    .collect(Collectors.groupingBy (Country ::getRegion, Collectors.mapping(Country::getName, Collectors.toList()))); System.out.println(regionNames);
```

- A. {EUROPE = [Italy, Germany], ASIA = [Japan]}  
B. {ASIA = [Japan], EUROPE = [Italy, Germany]}

- C. {EUROPE = [Germany, Italy], ASIA = [Japan]}
- D. {EUROPE = [Germany], EUROPE = [Italy], ASIA = [Japan]}

**Answer:** B

#### NEW QUESTION 68

Given that these files exist and are accessible:

```
/company/emp/info.txt
/company/emp/benefits/b1.txt
```

and given the code fragment:

```
// line n1
stream.forEach(s -> System.out.print(s));
```

Which code fragment can be inserted at line n1 to enable the code to print only /company/emp?

- A. `Stream<Path> stream = Files.list (Paths.get ("/company"));`
- B. `Stream<Path> stream = Files.find( Paths.get ("/company"), 1,(p,b) -> b.isDirectory (), FileVisitOption.FOLLOW_LINKS);`
- C. `Stream<Path> stream = Files.walk (Paths.get ("/company"));`
- D. `Stream<Path> stream = Files.list (Paths.get ("/company/emp"));`

**Answer:** B

#### NEW QUESTION 70

Given the code fragment:

```
List<String> nL = Arrays.asList("Jim", "John", "Jeff");
Function<String, String> funVal = s -> "Hello : ".contact(s);
nL.Stream()
.map(funVal)
.peek(System.out::print);
```

What is the result?

- A. Hello : Jim Hello : John Hello : Jeff
- B. Jim John Jeff
- C. The program prints nothing.
- D. A compilation error occurs.

**Answer:** C

#### NEW QUESTION 74

Given:

```
class RateOfInterest {
public static void main (String[] args) { int rateOfInterest = 0;
String accountType = "LOAN"; switch (accountType) {
case "RD"; rateOfInterest = 5; break;
case "FD"; rateOfInterest = 10; break;
default:
assert false: "No interest for this account"; //line n1
}
System.out.println ("Rate of interest:" + rateOfInterest);
}
}
```

and the command:

`java -ea RateOfInterest` What is the result?

- A. Rate of interest: 0
- B. An `AssertionError` is thrown.
- C. No interest for this account
- D. A compilation error occurs at line n1.

**Answer:** B

#### NEW QUESTION 78

Given the code fragment:

```
Deque<String> queue = new ArrayDeque<>();
queue.add("Susan");
queue.add("Allen");
queue.add("David");
System.out.println(queue.pop());
System.out.println(queue.remove());
System.out.println(queue);
```

What is the result?

- A. DavidDavid[Susan, Allen]



- B. SusanSusan[Susan, Allen]
- C. SusanAllen [David]
- D. DavidAllen [Susan]
- E. SusanAllen[Susan, David]

**Answer:** C

#### NEW QUESTION 80

You have been asked to create a ResourceBundle which uses a properties file to localize an application. Which code example specifies valid keys of menu1 and menu2 with values of File Menu and View Menu?

- A. <key name = 'menu1">File Menu</key><key name = 'menu2">View Menu</key>
- B. <key>menu1</key><value>File Menu</value><key>menu2</key><value>View Menu</value>
- C. menu1, File Menu, menu2, View Menu Menu
- D. menu1 = File Menu menu2 = View Menu

**Answer:** D

#### NEW QUESTION 85

Given the code fragment:

```
// Login time:2015-01-12T21:58:18.817Z
Instant loginTime = Instant.now();
Thread.sleep(1000);

// Logout time:2015-01-12T21:58:19.880Z
Instant logoutTime = Instant.now();

loginTime = loginTime.truncatedTo(ChronoUnit.MINUTES);    // line n1
logoutTime = logoutTime.truncatedTo(ChronoUnit.MINUTES);

if (logoutTime.isAfter(loginTime))
    System.out.println("Logged out at:"+logoutTime);
else
    System.out.println("Can't logout");
```

What is the result?

- A. A compilation error occurs at line n1.
- B. Logged out at: 2015-01-12T21:58:19.880Z
- C. Can't logout
- D. Logged out at: 2015-01-12T21:58:00Z

**Answer:** D

#### NEW QUESTION 88

Given:

```
class Block {
    String color;
    int size;
    Block(int size, String color) {
        this.size = size;
        this.color = color;
    }
}
```

and the code fragment:

```
List<Block> blocks = new ArrayList<>();
blocks.add(new Block(10, "Green"));
blocks.add(new Block(7, "Red"));
blocks.add(new Block(12, "Blue"));
Collections.sort(blocks, new ColorSorter());
```

Which definition of the ColorSorter class sorts the blocks list?



```
A. class ColorSorter implements Comparable<Block> {  
    public boolean compare(Block o1, Block o2) {  
        return o1.color.equals(o2.color);  
    }  
}  
  
B. class ColorSorter implements Comparable<Block> {  
    public int compareTo(Block o1, Block o2) {  
        return o1.color.compareTo(o2.color);  
    }  
}  
  
C. class ColorSorter implements Comparator<Block> {  
    public int compare(Block o1, Block o2) {  
        return o1.color.compareTo(o2.color);  
    }  
}  
  
D. class ColorSorter implements Comparator<Block> {  
    public boolean compare(Block o1, Block o2) {  
        return o1.color.compareTo(o2.color);  
    }  
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

**Answer:** B

#### NEW QUESTION 91

Given:

```
public class StrMan {
    public static void doStuff(String s) {
        try {
            if (s == null) {
                throw new NullPointerException();
            }
        } finally {
            System.out.println("-finally-");
        }
        System.out.println("-doStuff-");
    }
    public static void main (String[] args) {
        try {
            doStuff(null);
        } catch (NullPointerException npe) {
            System.out.println("-catch-");
        }
    }
}
```

What is the result?

- A. -catch--finally--dostuff-
- B. -catch-
- C. -finally--catch-
- D. -finally-dostuff--catch-

**Answer: C**

#### NEW QUESTION 92

Given the code fragment:

```
final List<String> list = new CopyOnWriteArrayList<>();
final AtomicInteger ai = new AtomicInteger(0);
final CyclicBarrier barrier = new CyclicBarrier(2, new Runnable() {
    public void run() { System.out.println(list); }
});
Runnable r = new Runnable() {
    public void run() {
        try {
            Thread.sleep(1000 * ai.incrementAndGet());
            list.add("X");
            barrier.await();
        } catch (Exception ex) {
        }
    }
};
new Thread(r).start();
new Thread(r).start();
new Thread(r).start();
new Thread(r).start();
```

What is the result ?

- A. [X][X, X][X, X, X, X]
- B. [X, X]
- C. [X][X, X][X, X, X]
- D. [X, X][X, X, X, X]

**Answer: A**

**NEW QUESTION 97**

Given the definition of the Vehicle class:

```
Class Vehicle {
int distance; //line n1
Vehicle (int x) {
this distance = x;
}
public void increSpeed(int time) { //line n2
int timeTravel = time; //line n3
}
class Car {
int value = 0;
public void speed () {
value = distance /timeTravel;
System.out.println ("Velocity with new speed"+value+"kmph");
}
}
new Car().speed();
}
```

and this code fragment: Vehicle v = new Vehicle (100); v.increSpeed(60);  
What is the result?

- A. Velocity with new speed
- B. A compilation error occurs at line n1.
- C. A compilation error occurs at line n2.
- D. A compilation error occurs at line n3.

**Answer:** A

**NEW QUESTION 100**

Given the code fragment:

```
Map<Integer, String> books = new TreeMap<>();
books.put (1007, "A");
books.put (1002, "C");
books.put (1001, "B");
books.put (1003, "B");
System.out.println (books);
```

What is the result?

- A. {1007 = A, 1002 = C, 1001 = B, 1003 = B}
- B. {1001 = B, 1002 = C, 1003 = B, 1007 = A}
- C. {1002 = C, 1003 = B, 1007 = A}
- D. {1007 = A, 1001 = B, 1003 = B, 1002 = C}

**Answer:** B

**NEW QUESTION 101**

Given:

```
interface Doable {
public void doSomething (String s);
}
```

Which two class definitions compile? (Choose two.)

- A. public abstract class Task implements Doable { public void doSomethingElse(String s) { }}
- B. public abstract class Work implements Doable { public abstract void doSomething(String s) { } public void doYourThing(Boolean b) { }}
- C. public class Job implements Doable { public void doSomething(Integer i) { }}
- D. public class Action implements Doable { public void doSomething(Integer i) { } public String doThis(Integer j) { }}
- E. public class Do implements Doable { public void doSomething(Integer i) { } public void doSomething(String s) { } public void doThat (String s) { }}

**Answer:** AE

**NEW QUESTION 105**

Given the code fragment:

```
List<String> gwords = Arrays.asList("why ", "what ", "when ");
BinaryOperator<String> operator = (s1, s2) -> s1.concat(s2); // line n1
String sen = gwords.stream()
    .reduce("Word: ", operator);
System.out.println(sen);
```

What is the result?

- A. Word: why what when
- B. Word: why Word: why what Word: why what when
- C. Word: why Word: what Word: when
- D. Compilation fails at line n1.



**Answer:** A

**NEW QUESTION 110**

Given the code fragment:

```
try {
    Properties prop = new Properties();
    prop.put("user", userName);
    prop.put("password", passWord);
    Connection conn = DriverManager.getConnection(dbURL, prop);
    if(conn != null){
        System.out.print("Connection Established");
    }
} catch (Exception e) {
    System.out.print(e);
}
```

and the information:

-  The required database driver is configured in the classpath.
-  The appropriate database is accessible with the dbURL, username, and passWord exists. What is the result?

- A. A ClassNotFoundException is thrown at runtime.
- B. The program prints nothing.
- C. The program prints Connection Established.
- D. A SQLException is thrown at runtime.

**Answer: C**

#### NEW QUESTION 113

Which two are elements of a singleton class? (Choose two.)

- A. a transient reference to point to the single instance
- B. a public method to instantiate the single instance
- C. a public static method to return a copy of the singleton reference
- D. a private constructor to the class
- E. a public reference to point to the single instance

**Answer: BD**

#### NEW QUESTION 115

Given the code fragment:

```
List<String> empDetails = Arrays.asList("100, Robin, HR", "200, Mary, AdminServices",
"101, Peter, HR");
empDetails.stream()
.filter(s-> s.contains("1"))
.sorted()
.f orEach(System.out::println); //line n1
What is the result?
```

- A. 100, Robin, HR101, Peter, HR
- B. A compilation error occurs at line n1.
- C. 100, Robin, HR101, Peter, HR200, Mary, AdminServices
- D. 100, Robin, HR200, Mary, AdminServices101, Peter, HR

**Answer: A**

#### NEW QUESTION 116

Given the content:

```
MessagesBundle.properties file:

username = Enter User Name
password = Enter Password

MessagesBundle_fr_FR.properties file:

username = Entrez le nom d'utilisateur
password = Entrez le mot de passe
```

and the code fragment:



```
Locale currentLocale = new Locale.Builder().setRegion("FR").setLanguage("fr").build();
ResourceBundle messages = ResourceBundle.getBundle("MessagesBundle", currentLocale);
Enumeration<String> names = messages.getKeys();
while (names.hasMoreElements()) {
    String key = names.nextElement();
    String name = messages.getString(key);
    System.out.println(key + " = " + name);
}
```

What is the result?

- A. username = Entrez le nom d'utilisateur password = Entrez le mot de passe
- B. username = Enter User Name password = Enter Password
- C. A compilation error occurs.
- D. The program prints nothing.

**Answer:** A

#### NEW QUESTION 119

Given the code fragment:

```
List<String> nums = Arrays.asList("EE", "SE");
String ans = nums
    .parallelStream()
    .reduce("Java ", (a, b) -> a.concat(b));
System.out.print(ans);
```

What is the result?

- A. Java EEJava EESE
- B. Java EESE
- C. The program prints either:Java EEJava SE orJava SEJava EE
- D. Java EEJava SE

**Answer:** D

#### NEW QUESTION 122

Given the content of Operator.java, EngineOperator.java, and Engine.java files:

```
Operator.java:
public abstract class Operator {
    protected void turnON();
    protected void turnOFF();
}

EngineOperator.java:
public class EngineOperator extends Operator{
    public final void turnON() { System.out.print("ON "); }
    public final void turnOFF() { System.out.println("OFF"); }
}

Engine.java:
public class Engine{
    Operator m = new EngineOperator();
    public void operate() {
        m.turnON();
        m.turnOFF();
    }
}
```

and the code fragment:

```
Engine carEngine = new Engine();
carEngine.operate();
```

What is the result?

- A. The Engine.java file fails to compile.
- B. The EngineOperator.java file fails to compile.
- C. The Operator.java file fails to compile.
- D. ON OFF

**Answer:** A

#### NEW QUESTION 126

Given that version.txt is accessible and contains: 1234567890  
and given the code fragment:

```
try (FileInputStream fis = new FileInputStream("version.txt");
    InputStreamReader isr = new InputStreamReader(fis);
    BufferedReader br = new BufferedReader(isr);) {
    if (br.markSupported()) {
        System.out.print((char) br.read());
        br.mark(2);
        System.out.print((char) br.read());
        br.reset();
        System.out.print((char) br.read());
    }
} catch (Exception e) {
    e.printStackTrace();
}
```

What is the result?

- A. 121
- B. 122
- C. 135
- D. The program prints nothing.

**Answer:** B

#### NEW QUESTION 127

Given the code fragments :

```
public class Product {
    String name;
    Integer price;
    Product(String name, Integer price) {
        this.name = name;
        this.price = price;
    }
    public void printVal(){ System.out.print(name + " Price:" + price + " "); }
    public void setPrice(int price) { this.price = price; }
    public Integer getPrice() { return price; }
}
```

and

```
List<Product> li = Arrays.asList(new Product("TV", 1000), new Product("Refrigerator",
2000));
Consumer<Product> raise = e -> e.setPrice(e.getPrice() + 100);
li.forEach(raise);
li.stream().forEach(Product::printVal);
```

What is the result?

- A. TV Price :110 Refrigerator Price :2100
- B. A compilation error occurs.
- C. TV Price :1000 Refrigerator Price :2000
- D. The program prints nothing.

**Answer:** C

#### NEW QUESTION 130

Given the code fragment:

```
10. try {
11.     Connection conn = DriverManager.getConnection(dbURL, userName, passWord);
12.     String query = "SELECT * FROM Employee WHERE ID = 110";
13.     Statement stmt = conn.createStatement();
14.     ResultSet rs = stmt.executeQuery(query);
15.     System.out.println("Employee ID: " + rs.getInt("ID"));
16. } catch (Exception se) {
17.     System.out.println("Error");
18. }
```

Assume that:

The required database driver is configured in the classpath.

The appropriate database is accessible with the dbURL, userName, and passWord exists The Employee table has a column ID of type integer and the SQL query matches one record. What is the result?

- A. Compilation fails at line 14.
- B. Compilation fails at line 15.
- C. The code prints the employee ID.
- D. The code prints Error.

**Answer:** A

#### NEW QUESTION 132

Which two reasons should you use interfaces instead of abstract classes? (Choose two.)

- A. You expect that classes that implement your interfaces have many common methods or fields, or require access modifiers other than public.
- B. You expect that unrelated classes would implement your interfaces.
- C. You want to share code among several closely related classes.
- D. You want to declare non-static on non-final fields.
- E. You want to take advantage of multiple inheritance of type.

**Answer:** BE

#### NEW QUESTION 134

Given:

```
class UserException extends Exception { }
```

```
class AgeOutOfLimitException extends UserException { }
```

 and the code fragment:

```
class App {
```

```
public void doRegister(String name, int age) throws UserException, AgeOutOfLimitException { if (name.length () < 6) {
```

```
throw new UserException ();
```

```
} else if (age >= 60) {
```

```
throw new AgeOutOfLimitException ();
```

```
} else {
```

```
System.out.println("User is registered.");
```

```
}
```

```
}
```

```
public static void main(String[] args) throws UserException { App t = new App ();
```

- A. t.doRegister("Mathew", 60);}
- B. User is registered.
- C. An AgeOutOfLimitException is thrown.
- D. A UserException is thrown.
- E. A compilation error occurs in the main method.

**Answer:** B

#### NEW QUESTION 139

Which two code blocks correctly initialize a Locale variable? (Choose two.)

- A. Locale loc1 = "UK";
- B. Locale loc2 = Locale.getInstance("ru");
- C. Locale loc3 = Locale.getLocaleFactory("RU");
- D. Locale loc4 = Locale.UK;
- E. Locale loc5 = new Locale ("ru", "RU");

**Answer:** DE

#### NEW QUESTION 141

Given the code fragments:



```
class Person // line n1
{
    String name;
    Person(String name) {
        this.name = name;
    }
    // line n2
}
```

and

```
List<Person> emps = new ArrayList<>();
/* code that adds objects of the Person class to the emps list goes here */
Collections.sort(emps);
```

Which two modifications enable to sort the elements of the emps list? (Choose two.)

- A. Replace line n1 with `class Person extends Comparator<Person>`
- B. At line n2 insert `public int compareTo (Person p) { return this.name.compareTo (p.name);}`
- C. Replace line n1 with `class Person implements Comparable<Person>`
- D. At line n2 insert `public int compare (Person p1, Person p2) { return p1.name.compareTo (p2.name);}`
- E. At line n2 insert `public int compareTo (Person p, Person p2) { return p1.name.compareTo (p2.name);}`
- F. Replace line n1 with `class Person implements Comparator<Person>`

**Answer:** CE

#### NEW QUESTION 142

Given: Book.java:

```
public class Book {
    private String read(String bname) { return "Read" + bname }
}
```

EBook.java:

```
public class EBook extends Book {
    public String read (String url) { return "View" + url }
}
```

Test.java:

```
public class Test {
    public static void main (String[] args) { Book b1 = new Book();
    b1.read("Java Programing"); Book b2 = new EBook();
    b2.read("http://ebook.com/ebook");
    }
}
```

What is the result?

- A. Read Java Programming View http:// ebook.com/ebook
- B. Read Java Programming Read http:// ebook.com/ebook
- C. The EBook.java file fails to compile.
- D. The Test.java file fails to compile.

**Answer:** D

#### NEW QUESTION 147

Given:

```
class MyClass implements AutoCloseable {
    int test;
    public void close() { }
    public MyClass copyObject() { return this; }
}
```

and the code fragment:

```
MyClass obj = null;
try (MyClass obj1 = new MyClass()) {
    obj1.test = 100;
    obj = obj1.copyObject(); // line n1
}
System.out.println(obj.test); // line n2
```

What is the result?

- A. An exception is thrown at line n2.



- B. 100
- C. A compilation error occurs because the try block is declared without a catch or finally block.
- D. A compilation error occurs at line n1.

**Answer:** D

#### NEW QUESTION 151

Given the code fragment:

```
List<String> str = Arrays.asList ("my", "pen", "is", "your", "pen"); Predicate<String> test = s -> {  
int i = 0;  
boolean result = s.contains ("pen");  
System.out.print(i++) + ":"; return result;  
};  
str.stream()  
.filter(test)  
.findFirst()  
.ifPresent(System.out ::print); What is the result?
```

- A. 0 : 0 : pen
- B. 0 : 1 : pen
- C. 0 : 0 : 0 : 0 : 0 : pen
- D. 0 : 1 : 2 : 3 : 4 :
- E. A compilation error occurs.

**Answer:** A

#### NEW QUESTION 152

Given:

```
public class Emp { String fName; String lName;  
public Emp (String fn, String ln) { fName = fn;  
lName = ln;  
}  
public String getfName() { return fName; } public String getlName() { return lName; }  
}
```

and the code fragment: List<Emp> emp = Arrays.asList ( new Emp ("John", "Smith"),  
new Emp ("Peter", "Sam"),  
new Emp ("Thomas", "Wale")); emp.stream()  
//line n1

.collect(Collectors.toList());

Which code fragment, when inserted at line n1, sorts the employees list in descending order of fName and then ascending order of lName?

- A. .sorted (Comparator.comparing(Emp::getfName).reserved().thenComparing(Emp::getlName))
- B. .sorted (Comparator.comparing(Emp::getfName).thenComparing(Emp::getlName))
- C. .map(Emp::getfName).sorted(Comparator.reserveOrder())
- D. .map(Emp::getfName).sorted(Comparator.reserveOrder()).map (Emp::getlName).reserved

**Answer:** A

#### NEW QUESTION 157

Which two methods from the java.util.stream.Stream interface perform a reduction operation? (Choose two.)

- A. count ()
- B. collect ()
- C. distinct ()
- D. peek ()
- E. filter ()

**Answer:** AB

#### NEW QUESTION 160

Given:

```
public class Test<T> { private T t;  
public T get () { return t;  
}  
public void set (T t) { this.t = t;  
}  
public static void main (String args [ ] ) { Test<String> type = new Test<>();  
Test type 1 = new Test (); //line n1 type.set("Java");  
type1.set(100); //line n2 System.out.print(type.get() + " " + type1.get());  
}  
}
```

What is the result?

- A. Java 100
- B. java.lang.string@<hashcode>java.lang.Integer@<hashcode>
- C. A compilation error occur
- D. To rectify it, replace line n1 with: Test<Integer> type1 = new Test<>();
- E. A compilation error occur
- F. To rectify it, replace line n2 with: type1.set (Integer(100));

**Answer:** A

#### NEW QUESTION 162

Given the code fragment:

```
public static void main (String [ ] args) throws IOException {  
    BufferedReader br = new BufferedReader (new InputStremReader (System.in)); System.out.print ("Enter GDP: ");  
    //line 1  
}
```

Which code fragment, when inserted at line 1, enables the code to read the GDP from the user?

- A. `int GDP = Integer.parseInt (br.readLine());`
- B. `int GDP = br.read();`
- C. `int GDP = br.nextInt();`
- D. `int GDP = Integer.parseInt (br.next());`

**Answer:** A

#### NEW QUESTION 163

Given:

```
class Worker extends Thread { CyclicBarrier cb;  
    public Worker(CyclicBarrier cb) { this.cb = cb; } public void run () {  
        try { cb.await();  
            System.out.println("Worker...");  
        } catch (Exception ex) { }  
    }  
}  
class Master implements Runnable { //line n1 public void run () { System.out.println("Master...");  
    }  
}
```

and the code fragment:

```
Master master = new Master();  
//line n2
```

```
Worker worker = new Worker(cb); worker.start();
```

You have been asked to ensure that the run methods of both the Worker and Master classes are executed. Which modification meets the requirement?

- A. At line n2, insert `CyclicBarrier cb = new CyclicBarrier(2, master);`
- B. Replace line n1 with `class Master extends Thread {`
- C. At line n2, insert `CyclicBarrier cb = new CyclicBarrier(1, master);`
- D. At line n2, insert `CyclicBarrier cb = new CyclicBarrier(master);`

**Answer:** C

#### NEW QUESTION 166

Given:

```
class Product {  
    String pname;  
    public Product (String pname) {  
        this.pname = pname;  
    }  
}
```

and the code fragment:

```
Product p1 = new Product ("PowerCharger");  
Product p2 = p1;  
System.out.println(p1.equals(p2));  
Product p3 = new Product ("PowerCharger");  
System.out.println(p1.equals(p3));
```

What is the result?

- A. true>true
- B. false>true
- C. false>false
- D. true>false

**Answer:** B

#### NEW QUESTION 171

Given the code fragments: `class Employee { Optional<Address> address;`  
`Employee (Optional<Address> address) { this.address = address;`  
`}`

```
public Optional<Address> getAddress() { return address; }
}
class Address {
String city = "New York";
public String getCity { return city; } public String toString() {
return city;
}
}
}
and
Address address = null;
Optional<Address> addrs1 = Optional.ofNullable (address);
Employee e1 = new Employee (addrs1);
String eAddress = (addrs1.isPresent()) ? addrs1.get().getCity() : "City Not available";
What is the result?
```

- A. New York
- B. City Not available
- C. null
- D. A NoSuchElementException is thrown at run time.

**Answer: B**

#### NEW QUESTION 176

Given:

```
class ImageScanner implements AutoCloseable { public void close () throws Exception { System.out.print ("Scanner closed.");
}
public void scanImage () throws Exception { System.out.print ("Scan.");
throw new Exception("Unable to scan.");
}
}
class ImagePrinter implements AutoCloseable { public void close () throws Exception { System.out.print ("Printer closed.");
}
public void printImage () {System.out.print("Print."); }
}
and this code fragment:
try (ImageScanner ir = new ImageScanner(); ImagePrinter iw = new ImagePrinter()) { ir.scanImage();
iw.printImage();
} catch (Exception e) { System.out.print(e.getMessage());
}
What is the result?
```

- A. Scan.Printer close
- B. Scanner close
- C. Unable to scan.
- D. Scan.Scanner close
- E. Unable to scan.
- F. Sca
- G. Unable to scan.
- H. Sca
- I. Unable to sca
- J. Printer closed.

**Answer: A**

#### NEW QUESTION 180

Given the code fragment:

```
List<Integer> li = Arrays.asList(10, 20, 30);
Function<Integer, Integer> fn = f1 -> f1 + f1;
Consumer<Integer> conVal = s -> System.out.print("Val:" + s + " ");
li.stream().map(fn).forEach(conVal);
```

What is the result?

- A. Val:20 Val:40 Val:60
- B. Val:10 Val:20 Val:30
- C. A compilation error occurs.
- D. Val: Val: Val:

**Answer: B**

#### NEW QUESTION 181

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