

# Set-2

## 0.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Given the code fragment:

```
public class Foo {  
    public static void main (String [ ] args) {  
        Map<Integer, String> unsortMap = new HashMap<> ( );  
        unsortMap.put (10, "z");  
        unsortMap.put (5, "b");  
        unsortMap.put (1, "d");  
        unsortMap.put (7, "e");  
        unsortMap.put (50, "j");  
  
        Map<Integer, String> treeMap = new TreeMap <Integer, String> (new  
        Comparator<Integer> ( ) {  
            @Override public int compare (Integer o1, Integer o2) {return o2.compareTo  
            (o1); } } );  
  
        treeMap.putAll (unsortMap);  
  
        for (Map.Entry<Integer, String> entry : treeMap.entrySet () ) {  
            System.out.print (entry.getValue () + " ");  
        }  
    }  
}
```



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What is the result?

- A. A compilation error occurs.
- B. d b e z j
- C. j z e b d
- D. z b d e j

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**Correct Answer: C**

Explanation/Reference:

## 1.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Given the code fragment:

```
List<Integer> values = Arrays.asList (1, 2, 3);
values.stream ()
    .map(n -> n*2)          //line n1
    .peek(System.out::print)  //line n2
    .count();
```

What is the result?

- A. 246
- B. The code produces no output.
- C. A compilation error occurs at line n1.
- D. A compilation error occurs at line n2.

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**Correct Answer: A**

Explanation/Reference:

## 2.Which modification enables the code fragment to compile?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

Given:

```
IntStream stream = IntStream.of (1,2,3);
IntFunction<Integer> inFu= x -> y -> x*y; //line n1
IntStream newStream = stream.map(inFu.apply(10)); //line n2
newStream.forEach(System.out::print);
```

Which modification enables the code fragment to compile?

- A. Replace line n1 with:

```
IntFunction<UnaryOperator> inFu = x -> y -> x*y;
```

- B. Replace line n1 with:

```
IntFunction<IntUnaryOperator> inFu = x -> y -> x*y;
```

- C. Replace line n1 with:

```
BiFunction<IntUnaryOperator> inFu = x -> y -> x*y;
```

- D. Replace line n2 with:

```
IntStream newStream = stream.map(inFu.applyAsInt (10));
```

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**Correct Answer: D**

Explanation/Reference:

## 3.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

Given the definition of the Vehicle class:

```

class Vehhicle {
    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.

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**Correct Answer: A**

Explanation/Reference:

## 4.Which two reasons should you use interfaces instead of abstract classes?

[05/14/2017](#) – by [Mod\\_GuideK2](#)

Which two reasons should you use interfaces instead of abstract classes?

- 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 or non-final fields.
- E. You want to take advantage of multiple inheritance of type.

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**Correct Answer: AE**

## 5.Which code fragment can be inserted at line n1 to enable the code to print the content of the courses.txt file?

[05/14/2017](#) – by [Mod\\_GuideK2](#)

Given the code fragment:

```
Path file = Paths.get ("courses.txt");  
// line n1
```

Assume the courses.txt is accessible.

Which code fragment can be inserted at line n1 to enable the code to print the content of the courses.txt file?

- A. **List<String> fc = Files.list(file);**  
fc.stream().forEach (s –> System.out.println(s));
- B. **Stream<String> fc = Files.readAllLines (file);**  
fc.forEach (s –> System.out.println(s));
- C. **List<String> fc = readAllLines(file);**  
fc.stream().forEach (s –> System.out.println(s));
- D. **Stream<String> fc = Files.lines (file);**  
fc.forEach (s –> System.out.println(s));

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**Correct Answer: B**

## 6.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

Given the code fragment:

```
Stream<List<String>> iStr= Stream.of (  
Arrays.asList ("1", "John"),  
Arrays.asList ("2", null));  
Stream<<String> nInSt = iStr.flatMapToInt ((x) -> x.stream());  
nInSt.forEach (System.out :: print);
```

What is the result?

- A. 1John2null
- B. 12
- C. A NullPointerException is thrown at run time.
- D. A compilation error occurs.

[HIDE ANSWERS](#)

**Correct Answer: C**

## 7.Which option fails?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

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<?, ?> percentage = new Foo <> (97, 32);`
- D. `Foo<String, String> grade = new Foo <> ("John", "A");`

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**Correct Answer: C**

Explanation/Reference:

## 8.Which statement is true?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

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.

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**Correct Answer: C**

Explanation/Reference:

## 9.Which two modifications enable the code to compile?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

Given:

```
1. abstract class Shape  {  
2.     Shape ( )    { System.out.println ("Shape");      }  
3.     protected void area ( ) { System.out.println ("Shape");      }  
4. }  
5.  
6. class Square extends Shape {  
7.     int side;  
8.     Square int side {  
9.         /* insert code here */  
10.        this.side = side;  
11.    }  
12.    public void area ( ) { System.out.println ("Square");      }  
13. }  
14. class Rectangle extends Square {  
15.     int len, br;  
16.     Rectangle (int x, int y)  {  
17.         /* insert code here */  
18.         len = x, br = y;  
19.     }  
20.     void area ( ) { System.out.println ("Rectangle");      }  
21. }
```



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Which two modifications enable the code to compile?

- A. At line 1, remove abstract
- B. At line 9, insert super ( );
- C. At line 12, remove public
- D. At line 17, insert super (x);
- E. At line 17, insert super (); super.side = x;
- F. At line 20, use public void area () {

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**Correct Answer: CD**

Explanation/Reference:

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

05/14/2017 – by [Mod\\_GuideK3](#)

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

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**Correct Answer: C**

## 11.What is the result of running the code with the-ea option?

05/14/2017 – by [Mod\\_GuideK3](#)

Given:

```
public class Counter {  
    public static void main (String[ ] args) {  
        int a = 10;  
        int b = -1;  
        assert (b >=1) : "Invalid Denominator";  
        int c = a / b;  
        System.out.println (c);  
    }  
}
```

What is the result of running the code with the -ea option?

- A. -10
- B. 0
- C. An AssertionError is thrown.
- D. A compilation error occurs.

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**Correct Answer: B**

Explanation/Reference:

## 12.What is the result?

05/14/2017 – by [Mod\\_GuideK4](#)

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.

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**Correct Answer: B**

Explanation/Reference:

## 13.Which modification enables the code to print Try again?

[05/14/2017](#) – by [Mod\\_GuideK2](#)

Given the code fragments:

```
4. void doStuff() throws ArithmeticException, NumberFormatException, Exception {  
5.     if (Math.random() >-1 throw new Exception ("Try again");  
6. }
```

and

```
24. try {  
25.     doStuff ();  
26. } catch (ArithmaticException | NumberFormatException | Exception e) {  
27.     System.out.println (e.getMessage()); }  
28. catch (Exception e) {  
29.     System.out.println (e.getMessage()); }  
30. }
```

Which modification enables the code to print Try again?

A. Comment the lines 28, 29 and 30.

B. Replace line 26 with:

```
} catch (Exception | ArithmaticException | NumberFormatException e) {
```

C. Replace line 26 with:

```
} catch (ArithmaticException | NumberFormatException e) {
```

D. Replace line 27 with:

```
throw e;
```

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**Correct Answer: C**

Explanation/Reference:

## 14.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK2](#)

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

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**Correct Answer: C**

## 15.Which action can be used to load a database driver by using JDBC3.0?

[05/14/2017](#) – by [Mod\\_GuideK2](#)

Which action can be used to load a database driver by using JDBC3.0?

- A. Add the driver class to the META-INF/services folder of the JAR file.
- B. Include the JDBC driver class in a jdbc.properties file.
- C. Use the java.lang.Class.forName method to load the driver class.
- D. Use the DriverManager.getDriver method to load the driver class.

[HIDE ANSWERS](#)

**Correct Answer: D**

## 16.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

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!

Test

followed 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.

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 17.Which statement is true?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Given:

```

class Book {
    int id;
    String name;
    public Book (int id, String name) {
        this.id = id;
        this.name = name;
    }
    public boolean equals (Object obj) { //line n1
        boolean output = false;
        Book b = (Book) obj;
        if (this.name.equals(b.name))
            output = true;
    }
    return output;
}
}

```

and the code fragment:

```
Book b1 = new Book (101, "Java Programming");
```

```
Book b2 = new Book (102, "Java Programing");
```

```
System.out.println (b1.equals(b2)); //line n2
```

Which statement is true?

- A. The program prints true.
- B. The program prints false.

C. A compilation error occurs. To ensure successful compilation, replace line n1 with:

```
boolean equals (Book obj) {
```

D. A compilation error occurs. To ensure successful compilation, replace line n2 with:

```
System.out.println (b1.equals((Object) b2));
```

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**Correct Answer: C**

Explanation/Reference:

## 18.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

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}

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**Correct Answer: D**

## 19.Given the definition of the Country class:

[05/14/2017](#) – by [Mod\\_GuideK5](#)

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]}

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**Correct Answer: A**

Explanation/Reference:

## 20.Which statement is true?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

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.

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**Correct Answer: B**

Explanation/Reference:

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

[05/14/2017](#) – by [Mod\\_GuideK5](#)

Given the code fragment:

```
public static void main (String [ ] args) throws IOException {
BufferedReader br = new BufferedReader (new InputStreamReader (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());

[HIDE ANSWERS](#)

**Correct Answer: C**

## 22.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

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;
}
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 EE**  
Java ME  
**C. [Java ME: Jessy:Chicago, Java ME: Mark:Chicago]**  
[Java EE: Helen:Houston]  
**D. A compilation error occurs.**

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**Correct Answer: C**

Explanation/Reference:

## 23.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Given the code fragment:

```

Path source = Paths.get ("/data/december/log.txt");
Path destination = Paths.get("/data");
Files.copy (source, destination); and assuming that the file /data/december/log.txt is accessible and contains:

```

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What is the result?

- A. A file with the name log.txt is created in the /data directory and the content of the /data/december/log.txt file is copied to it.**
- B. The program executes successfully and does NOT change the file system.**
- C. A FileNotFoundException is thrown at run time.**
- D. A FileAlreadyExistsException is thrown at run time.**

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 24.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

Given the code fragments:

```
interface CourseFilter extends Predicate<String> {
    public default boolean test (String str) {
        return str.equals ("Java");
    }
}
```

and

```
List<String> strs = Arrays.asList("Java", "Java EE", "Java ME");
Predicate<String> cf1 = s -> s.length() > 3;
Predicate cf2 = new CourseFilter() { //line n1
    public boolean test (String s) {
        return s.contains ("Java");
    }
};
long c = strs.stream()
    .filter(cf1)
    .filter(cf2) //line n2
.count();
System.out.println(c);
```

What is the result?

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

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 25.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK2](#)

Given the structure of the STUDENT table:

Student (id INTEGER, name VARCHAR)

Given:

```
public class Test {
    static Connection newConnection =null;
    public static Connection get DBConnection () throws SQLException {
        try (Connection con = DriverManager.getConnection(URL, username, password)) {
            newConnection = con;
        }
        return newConnection;
    }
    public static void main (String [] args) throws SQLException {
        get DBConnection ();
        Statement st = newConnection.createStatement();
        st.executeUpdate("INSERT INTO student VALUES (102, 'Kelvin')");
    }
}
```

Assume that:

The required database driver is configured in the classpath.

The appropriate database is accessible with the URL, userName, and passWord exists.

The SQL query is valid.

What is the result?

- A. The program executes successfully and the STUDENT table is updated with one record.
- B. The program executes successfully and the STUDENT table is NOT updated with any record.
- C. A SQLException is thrown as runtime.
- D. A NullPointerException is thrown as runtime.

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**Correct Answer: D**

Explanation/Reference:

## 26.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

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.");}
}

```

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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 closed. Scanner closed. Unable to scan.
- B. Scan.Scanner closed. Unable to scan.
- C. Scan. Unable to scan.
- D. Scan. Unable to scan. Printer closed.

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 27.Which two modifications enable the given code to compile?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

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?

- 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.

[HIDE ANSWERS](#)

**Correct Answer: AE**

Explanation/Reference:

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

05/14/2017 – by [Mod\\_GuideK5](#)

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

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 29.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

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).cre
());
        } 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.

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 30.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

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.



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[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

## 31.Which action encapsulates the Vehicle class?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Given the definition of the Vehicle class:

```
class Vehicle {  
    String name;  
    void setName (String name) {  
        this.name = name;  
    }  
    String getName () {  
        return name;  
    }  
}
```

Which action encapsulates the Vehicle class?

- A. Make the Vehicle class public.
- B. Make the name variable public.
- C. Make the setName method public.
- D. Make the name variable private.
- E. Make the setName method private.
- F. Make the getName method private.

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 32.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

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 occurs. To rectify it, replace line n1 with:  
`Test<Integer> type1 = new Test<>();`  
D. A compilation error occurs. To rectify it, replace line n2 with:  
`type1.set (Integer(100));`

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

## 33.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Given that course.txt is accessible and contains:

Course :: Java

and given the code fragment:

```
public static void main (String[ ] args)      {  
    int i;  
    char c;  
    try (FileInputStream fis = new FileInputStream ("course.txt");  
         InputStreamReader isr = new InputStreamReader(fis);) {  
        while (isr.ready()) { //line n1  
            isr.skip(2);  
            i = isr.read ();  
            c = (char) i;  
            System.out.print(c);  
        }  
    } catch (Exception e) {  
        e.printStackTrace();  
    }  
}
```

What is the result?

- A. ur :: va  
B. ueJa  
C. The program prints nothing.  
D. A compilation error occurs at line n1.

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 34.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Given:

```
class Vehicle {  
    int vno;  
    String name;  
  
    public Vehicle (int vno, String name) {  
        this.vno = vno;  
        this.name = name;  
    }  
    public String toString () {  
        return vno + ":" + name;  
    }  
}
```

and this code fragment:

```
Set<Vehicle> vehicles = new TreeSet <>();  
vehicles.add(new Vehicle (10123, "Ford"));  
vehicles.add(new Vehicle (10124, "BMW"));  
System.out.println(vehicles);
```

What is the result?

- A. 10123 Ford
- 10124 BMW
- B. 10124 BMW
- 10123 Ford
- C. A compilation error occurs.
- D. A ClassCastException is thrown at run time.

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 35.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

Given:

```
public class Product {  
    int id; int price;  
    public Product (int id, int price) {  
        this.id = id;  
        this.price = price;  
    }  
    public String toString() { return id + ":" + price; }  
}
```

and the code fragment:

```
List<Product> products = Arrays.asList(new Product(1, 10),  
    new Product (2, 30),  
    new Product (2, 30));  
Product p = products.stream().reduce(new Product (4, 0), (p1, p2) -> {  
    p1.price+=p2.price;  
    return new Product (p1.id, p1.price);});  
products.add(p);  
products.stream().parallel()  
.reduce((p1, p2) -> p1.price > p2.price ? p1 : p2)  
.ifPresent(System.out::println);
```

What is the result?

- A. 2 : 30
- B. 4 : 0
- C. 4 : 60
- D. 4 : 60
- 2 : 30
- 3 : 20
- 1 : 10
- E. The program prints nothing.

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 36.What is the result?

05/14/2017 – by [Mod\\_GuideK5](#)

Given the code fragments:

```

public class Book implements Comparator<Book> {
    String name;
    double price;
    public Book () {}
    public Book(String name, double price) {
        this.name = name;
        this.price = price;
    }
    public int compare(Book b1, Book b2) {
        return b1.name.compareTo(b2.name);
    }
    public String toString() {
        return name + ":" + price;
    }
}

```

and

```
List<Book>books = Arrays.asList (new Book ("Beginning with Java", 2), new book ("A Guide to Java Tour", 3));
```

```
Collections.sort(books, new Book());
```

```
System.out.print(books);
```

What is the result?

A. [A Guide to Java Tour:3, Beginning with Java:2]

B. [Beginning with Java:2, A Guide to Java Tour:3]

C. A compilation error occurs because the Book class does not override the abstract method compareTo().

D. An Exception is thrown at run time.

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 37.What is the result?

05/14/2017 – by [Mod\\_GuideK6](#)

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

[HIDE ANSWERS](#)

**Correct Answer: E**

### 38.Which statement is true?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Given:

```
public class Canvas implements Drawable { VCE To PDF - F
    public void draw ()    { }
}

public abstract class Board extends Canvas { }

public class Paper extends Canvas {
    protected void draw (int color)    {     }
}
public class Frame extends Canvas implements Drawable {
    public void resize ()    { }
}
public interface Drawable {
    public abstract void draw ();
}
```

Which statement is true?

- A. Board does not compile.
- B. Paper does not compile.
- C. Frame does not compile.
- D. Drawable does not compile.
- E. All classes compile successfully.

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

### 39.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Given the code fragments:

```

class Caller implements Callable<String> { VCE To PDF - Free Practice Exam
    String str;
    public Caller (String s) {this.str=s;}
    public String call()throws Exception { return str.concat ("Caller");}
}
class Runner implements Runnable {
    String str;
    public Runner (String s) {this.str=s;}
    public void run () { System.out.println (str.concat ("Runner")); }
}

```

and

```

public static void main (String[] args) InterruptedException, ExecutionException
    ExecutorService es = Executors.newFixedThreadPool(2);
    Future f1 = es.submit (new Caller ("Call"));
    Future f2 = es.submit (new Runner ("Run"));
    String str1 = (String) f1.get();
    String str2 = (String) f2.get();           //line n1
    System.out.println(str1+ ":" + str2);
}

```

What is the result?

**A. The program prints:**

Run Runner

Call Caller : null

And the program does not terminate.

**B. The program terminates after printing:**

Run Runner

Call Caller : Run

**C. A compilation error occurs at line n1.**

**D. An Execution is thrown at run time.**

[HIDE ANSWERS](#)

**Correct Answer: A**

[Explanation/Reference:](#)

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

[05/14/2017 – by Mod\\_GuideK5](#)

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()`

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

## 41.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

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()
    .forEach(System.out::println); //line n1
```

What is the result?

- A. 100, Robin, HR
- 101, Peter, HR
- B. A compilation error occurs at line n1.
- C. 100, Robin, HR
- 101, Peter, HR
- 200, Mary, AdminServices
- D. 100, Robin, HR
- 200, Mary, AdminServices
- 101, Peter, HR

[HIDE ANSWERS](#)

**Correct Answer: C**

## 42.Which statement is true?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

Given:

```

public final class IceCream {
    public void prepare()    {}
}
public class Cake {
    public final void bake(int min, int temp)    {}
    public void mix()    {}
}
public class Shop {
    private Cake c = new Cake ();
    private final double discount = 0.25;
    public void makeReady () { c.bake(10, 120); }
}
public class Bread extends Cake {
    public void bake(int minutes, int temperature)    {}
    public void addToppings()    {}
}

```

Which statement is true?

- A. A compilation error occurs in IceCream.
- B. A compilation error occurs in Cake.
- C. A compilation error occurs in Shop.
- D. A compilation error occurs in Bread
- E. All classes compile successfully.

[HIDE ANSWERS](#)

**Correct Answer: D**

### 43. Which code fragment must be inserted at line n1 to enable the code to print the maximum number in the nums list?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Given the code fragment:

```

List<Integer> nums = Arrays.asList (10, 20, 8);
System.out.println (
//line n1
);

```

Which code fragment must be inserted at line n1 to enable the code to print the maximum number in the nums list?

- A. nums.stream().max(Comparator.comparing(a -> a)).get()
- B. nums.stream().max(Integer :: max).get()
- C. nums.stream().max()
- D. nums.stream().map(a -> a).max()

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

## 44.Which statement is true about the DriverManager class?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

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.

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

**Explanation:** *The DriverManager returns an instance of DoctrineDBALConnection which is a wrapper around the underlying driver connection (which is often a PDO instance).*

Reference: <http://doctrine-dbal.readthedocs.org/en/latest/reference/configuration.html>)

## 45.Which statement is true about the single abstract method of the java.util.function.Function interface?

[05/14/2017](#) – by [Mod\\_GuideK10](#)

Which statement is true about the single abstract method of the java.util.function.Function interface?

- A. It accepts one argument and returns void.
- B. It accepts one argument and returns boolean.
- C. It accepts one argument and always produces a result of the same type as the argument.
- D. It accepts an argument and produces a result of any data type.

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

Reference: <http://winterbe.com/posts/2014/03/16/java-8-tutorial/> (functions)

## 46.Which code fragment creates an instance of Car?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Given:

```
interface Rideable {Car getCar (String name); }

class Car {
    private String name;
    public Car (String name) {
        this.name = name;
    }
}
```

Which code fragment creates an instance of Car?

- A. Car auto = Car ("MyCar") : : new;  
B. Car auto = Car : : new;  
Car vehicle = auto : : getCar("MyCar");  
C. Rideable rider = Car : : new;  
Car vehicle = rider.getCar("MyCar");  
D. Car vehicle = Rideable : : new : : getCar("MyCar");

[HIDE ANSWERS](#)

**Correct Answer: C**

## 47.What is the result of compiling and executing this code fragment?

05/14/2017 – by [Mod\\_GuideK6](#)

Given the code fragment:

```
9. Connection conn = DriverManager.getConnection(dbURL, userName, password);
10. String query = "SELECT id FROM Employee";
11. try (Statement stmt = conn.createStatement()) {
12.     ResultSet rs = stmt.executeQuery(query);
13.     stmt.executeQuery("SELECT id FROM Customer");
14.     while (rs.next()) {
15.         //process the results
16.         System.out.println("Employee ID: " + rs.getInt("id"));
17.     }
18. } catch (Exception e) {
19.     System.out.println ("Error");
20. }
```

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 and Customer tables are available and each table has id column with a few records and the SQL queries are valid.

What is the result of compiling and executing this code fragment?

- A. The program prints employee IDs.  
B. The program prints customer IDs.  
C. The program prints Error.  
D. compilation fails on line 13.

[HIDE ANSWERS](#)

**Correct Answer: D**

## 48.Which two statements enforce the singleton nature of the design?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

You want to create a singleton class by using the Singleton design pattern.

Which two statements enforce the singleton nature of the design?

- A. Make the class static.
- B. Make the constructor private.
- C. Override equals() and hashCode() methods of the java.lang.Object class.
- D. Use a static reference to point to the single instance.
- E. Implement the Serializable interface.

[HIDE ANSWERS](#)

**Correct Answer: AB**

## 49.Which two modifications enable the code to print Open Close?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

Given:

```
final class Folder {           //line n1
    //line n2
    public void open () {
        System.out.print("Open");
    }
}
public class Test {
    public static void main (String [] args) throws Exception  {
        try (Folder f = new Folder())  {
            f.open();
        }
    }
}
```

Which two modifications enable the code to print Open Close?

- A. Replace line n1 with:

```
class Folder implements AutoCloseable {
```

- B. Replace line n1 with:

```
class Folder extends Closeable {
```

- C. Replace line n1 with:

```
class Folder extends Exception {
```

- D. At line n2, insert:

```
final void close () {
    System.out.print("Close");
}
```

- E. At line n2, insert:

```
public void close () throws IOException {  
    System.out.print("Close");  
}
```

[HIDE ANSWERS](#)

**Correct Answer: AC**

Explanation/Reference:

## 50.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

The data.doc, data.txt and data.xml files are accessible and contain text.  
Given the code fragment:

```
Stream<Path> paths = Stream.of (Paths. get("data.doc"),  
    Paths. get("data.txt"),  
    Paths. get("data.xml"));  
paths.filter(s-> s.toString().endsWith("txt")).forEach(  
    s -> {  
        try {  
            Files.readAllLines(s)  
                .stream()  
                .forEach(System.out::println); //line n1  
        } catch (IOException e) {  
            System.out.println("Exception");  
        }  
    }  
);
```



What is the result?

A. The program prints the content of data.txt file.

B. The program prints:

Exception

<<The content of the data.txt file>>

Exception

C. A compilation error occurs at line n1.

D. The program prints the content of the three files.

[HIDE ANSWERS](#)

**Correct Answer: D**

## 51.Which statement is true about java.util.stream.Stream?

[05/14/2017](#) – by [Mod\\_GuideK7](#)

Which statement is true about java.util.stream.Stream?

A. A stream cannot be consumed more than once.

B. The execution mode of streams can be changed during processing.

- C. Streams are intended to modify the source data.
- D. A parallel stream is always faster than an equivalent sequential stream.

[HIDE ANSWERS](#)

**Correct Answer: B**

## 52.Which two statements are true about localizing an application?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Which two statements are true about localizing an application?

- A. Support for new regional languages does not require recompilation of the code.
- B. Textual elements (messages and GUI labels) are hard-coded in the code.
- C. Language and region-specific programs are created using localized data.
- D. Resource bundle files include data and currency information.
- E. Language codes use lowercase letters and region codes use uppercase letters.

[HIDE ANSWERS](#)

**Correct Answer: AE**

Explanation/Reference:

Reference: <http://docs.oracle.com/javase/7/docs/technotes/guides/intl/>

## 53.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

Given:

```

public class Customer {
    private String fName;
    private String lName;
    private static int count;
    public customer (String first, String last) {fName = first, lName = last;
    ++count;}
    static { count = 0; }
    public static int getCount() {return count; }
}

public class App {
    public static void main (String [] args) {
        Customer c1 = new Customer("Larry", "Smith");
        Customer c2 = new Customer("Pedro", "Gonzales");
        Customer c3 = new Customer("Penny", "Jones");
        Customer c4 = new Customer("Lars", "Svenson");
        c4 = null;
        c3 = c2;
        System.out.println (Customer.getCount());
    }
}

```

What is the result?

- A. 0
- B. 2
- C. 3
- D. 4
- E. 5

[HIDE ANSWERS](#)

**Correct Answer: A**

## 54.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

Given the code fragment:

```

List<Integer> codes = Arrays.asList (10, 20);
UnaryOperator<Double> uo = s -> s +10.0;
codes.replaceAll(uo);
codes.forEach(c -> System.out.println(c));

```

What is the result?

- A. 20.0
- 30.0
- B. 10

- C. A compilation error occurs.  
D. A NumberFormatException is thrown at run time.

[HIDE ANSWERS](#)

**Correct Answer: A**

## 55.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

Given:

Item table

- ID, INTEGER: PK
- DESCRIPT, VARCHAR(100)
- PRICE, REAL
- QUANTITY< INTEGER

And given the code fragment:

```
9. try {  
10.    Connection conn = DriverManager.getConnection(dbURL, username, password);  
11.    String query = "Select * FROM Item WHERE ID = 110";  
12.    Statement stmt = conn.createStatement();  
13.    ResultSet rs = stmt.executeQuery(query);  
14.    while(rs.next()) {  
15.        System.out.println("ID:          " + rs.getInt("Id"));  
16.        System.out.println("Description:   " + rs.getString("Descrip"));  
17.        System.out.println("Price:         " + rs.getDouble("Price"));  
18.        System.out.println("Quantity:      " + rs.getInt("Quantity"));  
19.    }  
20. } catch (SQLException se) {  
21.     System.out.println("Error");  
22. }
```

Assume that:

The required database driver is configured in the classpath.

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

The SQL query is valid.

What is the result?

- A. An exception is thrown at runtime.
- B. Compilation fails.
- C. The code prints Error.
- D. The code prints information about Item 110.

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

## 56.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

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. 0
- B. 1
- C. A compilation error occurs at line n1.
- D. A compilation error occurs at line n2.

[HIDE ANSWERS](#)

**Correct Answer: A**

## 57.Which modification meets the requirement?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

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);

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 58.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

Given the code fragment:

```
List<String> codes = Arrays.asList ("DOC", "MPEG", "JPEG");
codes.forEach (c -> System.out.print(c + " "));
String fmt = codes.stream()
    .filter (s-> s.contains ("PEG"))
    .reduce((s, t) -> s + t).get();
System.out.println("\n" + fmt);
```



What is the result?

- A. DOC MPEG JPEG
- MPEGJPEG
- B. DOC MPEG MPEGJPEG
- MPEGMPEGJPEG
- C. MPEGJPEG
- MPEGJPEG
- D. The order of the output is unpredictable.

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 59.Which modification enables the code fragment to print Happy Journey!?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

Given:

```

class FuelNotAvailException extends Exception { }
class Vehicle {
    void ride() throws FuelNotAvailException { //line n1
        System.out.println("Happy Journey!");
    }
}
class SolarVehicle extends Vehicle {
    public void ride () throws Exception { //line n2
        super ride ();
    }
}

```

and the code fragment:

```

public static void main (String[] args) throws FuelNotAvailException, Exception {
    Vehicle v = new SolarVehicle ();
    v.ride();
}

```

Which modification enables the code fragment to print Happy Journey!?

- A. Replace line n1 with `public void ride() throws FuelNotAvailException {`
- B. Replace line n1 with `protected void ride() throws Exception {`
- C. Replace line n2 with `void ride() throws Exception {`
- D. Replace line n2 with `private void ride() throws FuelNotAvailException {`

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 60.Which two code blocks correctly initialize a Locale variable?

[05/14/2017](#) – by [Mod\\_GuideK6](#)

Which two code blocks correctly initialize a Locale variable?

- 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");`

[HIDE ANSWERS](#)

**Correct Answer: DE**

## 61.Which statement is true?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Given:

```
public interface Moveable<Integer> {
    public default void walk (Integer distance) {System.out.println("Walking");}
    public void run(Integer distance);
}
```

Which statement is true?

**A. Moveable can be used as below:**

```
Moveable<Integer> animal = n -> System.out.println("Running" + n);
animal.run(100);
animal.walk(20);
```

**B. Moveable can be used as below:**

```
Moveable<Integer> animal = n -> n + 10;
animal.run(100);
animal.walk(20);
```

**C. Moveable can be used as below:**

```
Moveable animal = (Integer n) -> System.out.println(n);
animal.run(100);
Moveable.walk(20);
```

**D. Movable cannot be used in a lambda expression.**

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 62.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

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.

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 63.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Given the definition of the Emp class:

```

public class Emp
    private String eName;
    private Integer eAge;

    Emp(String eN, Integer eA)      {
        this.eName = eN;
        this.eAge = eA;
    }
    public Integer getEAge () {return eAge; }
    public String getEName () {return eName; }
}

```

and code fragment:

```

List<Emp>li = Arrays.asList(new Emp("Sam", 20), New Emp("John", 60), New Emp("Jim", 51));
Predicate<Emp> agVal = s -> s.getEAge() > 50; //line n1
li = li.stream().filter(agVal).collect(Collectors.toList());
Stream<String> names = li.stream().map.(Emp::getEName); //line n2
names.forEach(n -> System.out.print(n + " "));

```

What is the result?

- A. Sam John Jim
- B. John Jim
- C. A compilation error occurs at line n1.
- D. A compilation error occurs at line n2.

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 64.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK2](#)

Given the records from the Employee table:

<b>eid</b>	<b>ename</b>
111	Tom
112	Jerry
113	Donald

and given the code fragment:

```

try {
    Connection conn = DriverManager.getConnection (URL, userName, passWord);
    Statement st = conn.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
                                         ResultSet.CONCUR_UPDATABLE);
    st.execute("SELECT*FROM Employee");
    ResultSet rs = st.getResultSet();
    while (rs.next()) {
        if (rs.getInt(1) ==112) {
            rs.updateString(2, "Jack");
        }
        rs.absolute(2);
        System.out.println(rs.getInt(1) + " " + rs.getString(2));
    } catch (SQLException ex) {
        System.out.println("Exception is raised");
    }
}

```

Assume that:

The required database driver is configured in the classpath.

The appropriate database accessible with the URL, userName, and passWord exists.

What is the result?

**A. The Employee table is updated with the row:**

112 Jack

and the program prints:

112 Jerry

**B. The Employee table is updated with the row:**

112 Jack

and the program prints:

112 Jack

**C. The Employee table is not updated and the program prints:**

112 Jerry

**D. The program prints Exception is raised.**

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 65.Which code example specifies valid keys of menu1 and menu2 with values of File Menu and View Menu?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

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

[HIDE ANSWERS](#)

**Correct Answer: B**

## 66.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Given the code fragment:

```
UnaryOperator<Integer> uo1 = s -> s*2;           line n1
List<Double> loanValues = Arrays.asList(1000.0, 2000.0);
loanValues.stream()
    .filter(lv -> lv >= 1500)
    .map(lv -> uo1.apply(lv))
    .forEach(s -> System.out.print(s + " "));
```

What is the result?

- A. 4000.0
- B. 4000
- C. A compilation error occurs at line n1.
- D. A compilation error occurs at line n2.

[HIDE ANSWERS](#)

**Correct Answer: B**

## 67.Which statement is true about java.time.Duration?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Which statement is true about java.time.Duration?

- A. It tracks time zones.
- B. It preserves daylight saving time.
- C. It defines time-based values.
- D. It defines date-based values.

[HIDE ANSWERS](#)

**Correct Answer: C**

## 68.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

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.

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

## 69.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

Given the code fragment:

```
LocalDate valentinesDay = LocalDate.of(2015, Month.FEBRUARY, 14);  
LocalDate nextYear = valentinesDay.plusYears(1); nextYear.plusDays(15); //line n1  
System.out.println(nextYear);
```

What is the result?

- A. 2016-02-14
- B. A DateTimeException is thrown.
- C. 2016-02-29
- D. A compilation error occurs at line n1.

[HIDE ANSWERS](#)

**Correct Answer: B**

## 70.Which three objects must a vendor provide implementations in its JDBC driver?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

For which three objects must a vendor provide implementations in its JDBC driver?

- A. Time
- B. Date
- C. Statement
- D. ResultSet
- E. Connection
- F. SQLException
- G. DriverManager

[HIDE ANSWERS](#)

**Correct Answer: CDE**

Explanation/Reference:

**Explanation:** Database vendors support JDBC through the JDBC driver interface or through the ODBC connection. Each driver must provide implementations of java.sql.Connection,

*java.sql.Statement, java.sql.PreparedStatement, java.sql.CallableStatement, and java.sql.ResultSet. They must also implement the java.sql.Driver interface for use by the generic java.sql.DriverManager interface.*

## 71.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

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.

[HIDE ANSWERS](#)

**Correct Answer: C**

## 72.Which should be inserted at line n1 to print Java-Oracle DB-J2EE-?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

Given the code fragments:

```

class TechName {
    String techName;
    TechName (String techName) {
        this.techName=techName;
    }
}

```

and

```

List<TechName> tech = Arrays.asList (
    new TechName("Java-"),
    new TechName("Oracle DB-"),
    new TechName("J2EE-")
);
Stream<TechName> stre = tech.stream();
//line n1

```

Which should be inserted at line n1 to print Java-Oracle DB-J2EE-?

- A. stre.forEach(System.out::print);
- B. stre.map(a-> a.techName).forEach(System.out::print);
- C. stre.map(a-> a).forEachOrdered(System.out::print);
- D. stre.forEachOrdered(System.out::print);

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

### 73.Which code fragment should be inserted at line n1 to enable the code to print Rat Cat Lion Tiger?

[05/14/2017](#) – by [Mod\\_GuideK4](#)

Given:

```

class CheckClass {
    public static int checkValue (String s1, String s2) {
        return s1.length() - s2.length();
    }
}

```

and the code fragment:

```

String[] strArray = new String [] {"Tiger", "Rat", "Cat", "Lion"}
//line n1
for (String s : strArray) {
    System.out.print (s + " ");
}

```

Which code fragment should be inserted at line n1 to enable the code to print Rat Cat Lion Tiger?

- A. Arrays.sort(strArray, CheckClass :: checkValue);
- B. Arrays.sort(strArray, (CheckClass :: new) :: checkValue);

- C. `Arrays.sort(strArray, (CheckClass :: new).checkValue);`  
D. `Arrays.sort(strArray, CheckClass :: new :: checkValue);`

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 74.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

Given the code fragment:

```
public class FileThread implements Runnable {  
    String fName;  
    public FileThread(String fName) { this.fName = fName; }  
    public void run () System.out.println(fName);  
    public static void main (String[] args) throws IOException, InterruptedException {  
        ExecutorService executor = Executors.newCachedThreadPool();  
        Stream<Path> listOfFiles = Files.walk(Paths.get("Java Projects"));  
        listOfFiles.forEach(line -> {  
            executor.execute(new FileThread(line.getFileName().toString())); //  
line n1  
        });  
        executor.shutdown();  
        executor.awaitTermination(5, TimeUnit.DAYS); //  
line n2  
    }  
}
```

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The Java Projects directory exists and contains a list of files.

What is the result?

- A. The program throws a runtime exception at line n2.
- B. The program prints files names concurrently.
- C. The program prints files names sequentially.
- D. A compilation error occurs at line n1.

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 75.Which statement is true?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

Given the code fragment:

```
class CallerThread implements Callable<String> {
    String str;
    public CallerThread(String s) {this.str=s;}
    public String call() throws Exception {
        return str.concat("Call");
    }
}
```

and

```
public static void main (String[] args) throws InterruptedException, ExecutionException {
    ExecutorService es = Executors.newFixedThreadPool(4); //line n1
    Future f1 = es.submit (newCallerThread("Call"));
    String str = f1.get().toString();
    System.out.println(str);
}
```

Which statement is true?

- A. The program prints Call Call and terminates.
- B. The program prints Call Call and does not terminate.
- C. A compilation error occurs at line n1.
- D. An ExecutionException is thrown at run time.

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 76.Which code fragment, when inserted at line n1, prints 10 20 15 30?

05/14/2017 – by [Mod\\_GuideK4](#)

Given the code fragment:

```
List<Integer> list1 = Arrays.asList(10, 20);
List<Integer> list2 = Arrays.asList(15, 30);
//line n1
```

Which code fragment, when inserted at line n1, prints 10 20 15 30?

- A. Stream.of(list1, list2)  
.flatMap(list -> list.stream())  
.forEach(s -> System.out.print(s + " "));
- B. Stream.of(list1, list2)  
.flatMap(list -> list.intStream())  
.forEach(s -> System.out.print(s + " "));
- C. list1.stream()  
.flatMap(list2.stream().flatMap(e1 -> e1.stream()))  
.forEach(s -> System.out.println(s + " "));
- D. Stream.of(list1, list2)  
.flatMapToInt(list -> list.stream())  
.forEach(s -> System.out.print(s + " "));

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

## 77.Which two class definitions compile?

[05/14/2017](#) – by [Mod\\_GuideK8](#)

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

Which two class definitions compile?

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) {}  
}

[HIDE ANSWERS](#)

**Correct Answer: CD**

## 78.Which statement is true?

[05/14/2017](#) – by [Mod\\_GuideK3](#)

Given that /green.txt and /colors/yellow.txt are accessible, and the code fragment:

```
Path source = Paths.get("/green.txt");
Path target = Paths.get("/colors/yellow.txt");
Files.move(source, target, StandardCopyOption.ATOMIC_MOVE);
Files.delete(source);
```

Which statement is true?

A. The green.txt file content is replaced by the yellow.txt file content and the yellow.txt file is deleted.

B. The yellow.txt file content is replaced by the green.txt file content and an

- exception is thrown.
- C. The file green.txt is moved to the /colors directory.
- D. A FileAlreadyExistsException is thrown at runtime.

[HIDE ANSWERS](#)

**Correct Answer: D**

## 79.What is the result?

05/14/2017 – by [Mod\\_GuideK5](#)

Given the code fragment:

```
public static void main (String[] args) throws IOException {  
    BufferedReader brCopy = null;  
    try (BufferedReader br = new BufferedReader (new FileReader("employee.txt")) {  
        line n1  
        br.lines().forEach(c -> System.out.println(c));  
        brCopy = br; //line n2  
    }  
    brCopy.ready(); //line n3;  
}
```

Assume that the ready method of the BufferedReader, when called on a closed BufferedReader, throws an exception, and employee.txt is accessible and contains valid text.

What is the result?

- A. A compilation error occurs at line n3.
- B. A compilation error occurs at line n1.
- C. A compilation error occurs at line n2.
- D. The code prints the content of the employee.txt file and throws an exception at line n3.

[HIDE ANSWERS](#)

**Correct Answer: B**

## 80.What is the result?

05/14/2017 – by [Mod\\_GuideK5](#)

Given the code fragment:

```
ZonedDateTime depart = ZonedDateTime.of(2015, 1, 15, 3, 0, 0, 0, ZoneId.of("UTC-7"));  
ZonedDateTime arrive = ZonedDateTime.of(2015, 1, 15, 9, 0, 0, 0, ZoneId.of("UTC-5"));  
long hrs = ChronoUnit.HOURS.between(depart, arrive); //line n1  
System.out.println("Travel time is" + hrs + "hours");  
What is the result?
```

- A. Travel time is 4 hours

- B. Travel time is 6 hours
- C. Travel time is 8 hours
- D. An exception is thrown at line n1.

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 81.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK6](#)

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 Programming");  
        Book b2 = new EBook();  
        b2.read("http://ebook.com/ebook");  
    }  
}
```

  
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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.

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 82.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK5](#)

Given:

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

and the code fragment:

```
class App {
    public void doRegister(String name, int age)
        throws UserException, AgeOutOfBoundsException {
        if (name.length () < 6) {
            throw new UserException ();
        } else if (age >= 60) {
            throw new AgeOutOfBoundsException ();
        } else {
            System.out.println("User is registered.");
        }
    }
    public static void main(String[ ] args) throws UserException {
        App t = new App ();
        t.doRegister("Mathew", 60);
    }
}
```

What is the result?

- A. User is registered.
- B. An AgeOutOfBoundsException is thrown.
- C. A UserException is thrown.
- D. A compilation error occurs in the main method.

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 83.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK6](#)

Given the code fragment:

```
List<String> colors = Arrays.asList("red", "green", "yellow");
Predicate<String> test = n -> {
    System.out.println("Searching...");
    return n.contains("red");
};
colors.stream()
    .filter(c -> c.length() > 3)
    .allMatch(test);
```

What is the result?

- A. Searching...
- B. Searching...
- C. Searching...

Searching...

Searching...

**D. A compilation error occurs.**

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 84.What is the result?

[05/14/2017](#) – by [Mod\\_GuideK7](#)

Given the code fragment:

```
Path path1 = Paths.get("/app/.sys/");
Path res1 = path1.resolve("log");
Path path2 = Paths.get("/server/exe/");
Path res1 = path1.resolve("/readme");
System.out.println(res1);
System.out.println(res2);
```

What is the result?

**A. /app/sys/log**

/readme/server/exe

**B. /app/log/sys**

/server/exe/readme

**C. /app/.sys/log**

/readme

**D. /app/.sys/log**

/server/exe/readme

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 85.Which modification enables the code fragment to print Speaker?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given:

```
class Product {  
    String name;  
    int qty;  
    public String toString() {  
        return name;  
    }  
    public Product(String name, int qty) {  
        this.name = name;  
        this.qty = qty;  
    }  
    static class ProductFilter {  
        public boolean isAvailable(Product p) { // line n1  
            return p.qty >= 10;  
        }  
    }  
}
```

and the code fragment:

```
List<Product> products = Arrays.asList(  
    new Product("MotherBoard", 5),  
    new Product("Speaker", 20));  
products.stream()  
    .filter(Product.ProductFilter::isAvailable) // line n2  
    .forEach(p -> System.out.println(p));
```

Which modification enables the code fragment to print Speaker?

- A. Implement Predicate in the Product.ProductFilter class and replace line n2 with .filter (p -> p.ProductFilter.test (p))
- B. Replace line n1 with: public static boolean isAvailable (Product p) {
- C. Replace line n2 with:  
.filter (p -> p.ProductFilter: :isAvailable (p))
- D. Replace line n2 with:  
.filter (p -> Product: :ProductFilter: :isAvailable ())

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 86.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given the code fragment:

```
Path path1 = Paths.get("/software/.../sys/readme.txt");
Path path2 = path1.normalize();
Path path3 = path2.relativize(path1);
System.out.print(path1.getNameCount());
System.out.print(" : " + path2.getNameCount());
System.out.print(" : " + path3.getNameCount());
```

What is the result?

- A. 5 : 3 : 6
- B. 6 : 5 : 6
- C. 3 : 3 : 4
- D. 4 : 4 : 4

[HIDE ANSWERS](#)

**Correct Answer: D**

## 87.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

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-

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

## 88.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

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")
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.

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 89.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK7](#)

Given the content of the employee.txt file:

Every worker is a master.

Given that the employee.txt file is accessible and the file allemp.txt does NOT exist, and

the code fragment:

```
try {  
    List<String> content = Files.readAllLines(Paths.get("employee.txt"));  
    content.stream().forEach(line -> {  
        try {  
            Files.write(  
                Paths.get("allemp.txt"),  
                line.getBytes(),  
                StandardOpenOption.APPEND  
            );  
        } catch (IOException e) { System.out.println("Exception 1"); }  
    });  
} catch (IOException e) { System.out.println("Exception 2"); }
```

What is the result?

- A. Exception 1
- B. Exception 2
- C. The program executes, does NOT affect the system, and produces NO output.
- D. allemp.txt is created and the content of employee.txt is copied to it.

[HIDE ANSWERS](#)

**Correct Answer: A**

## 90.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given:

```
public class Foo {  
    public void methodB(String s) { System.out.println("Foo " + s); }  
  
}  
  
public class Bar extends Foo {  
    public void methodB(String s) { System.out.println("Bar " + s); }  
}  
  
public class Baz extends Bar {  
    public void methodB(String s) { System.out.println("Baz " + s); }  
}  
  
public class Daze extends Baz{  
    private Bar bb = new Bar();  
    public void methodB(String s) {  
        bb.methodB(s);  
        super.methodB(s);  
    }  
}  
  
public class TestClass {  
    public static void main(String[] args) {  
        Baz d = new Daze();  
        d.methodB("Hello");  
    }  
}
```

What is the result?

- A. Bar Hello
- Foo Hello
- B. Bar Hello
- Baz Hello
- C. Baz Hello
- D. A compilation error occurs in the Daze class.

[HIDE ANSWERS](#)

**Correct Answer: B**

## 91.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given:

```
public class Job {  
    String name;  
    Integer cost;  
    Job(String name, Integer cost) {  
        this.name = name;  
        this.cost = cost;  
    }  
    String getName() { return name; }  
    int getCost() { return cost; }  
    public static void main(String[] args) {  
        Job j1 = new Job("IT", null);  
        DoubleSupplier js1 = j1::getCost;  
        System.out.println(j1.getName() + ":" + js1.getAsDouble());  
    }  
}
```

What is the result?

- A. IT:null
- B. A NullPointerException is thrown at run time.
- C. A compilation error occurs.
- D. IT:0.0

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 92.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

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

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 93.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given the code fragment:

```
List<String> li = Arrays.asList("Java", "J2EE", "J2ME", "JSTL", "JSP", "Oracle DB"
Predicate<String> val = p -> p.contains("J");
List<String> neLi = li.stream().filter(x -> x.length() > 3)
    .filter(val).collect(Collectors.toList());
System.out.println(neLi);
```

What is the result?

- A. A compilation error occurs.
- B. [Java, J2EE, J2ME, JSTL, JSP]
- C. null
- D. [Java, J2EE, J2ME, JSTL]

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 94.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

Given:

```
class DataConverter {
    public void copyFlatFilesToTables() { }
    public void close() throws Exception {
        throw new RuntimeException(); // line n1
    }
}
```

and the code fragment:

```
public static void main(String[] args) throws Exception {
    try (DataConverter dc = new DataConverter()) // line n2
    { dc.copyFlatFilesToTables(); }
}
```

What is the result?

- A. A compilation error occurs at line n2.
- B. A compilation error occurs because the try block doesn't have a catch or finally block.
- C. A compilation error occurs at line n1.
- D. The program compiles successfully.

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 95.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

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.

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

## 96.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

Given:

```
class Resource implements AutoCloseable {
    public void close() throws Exception {
        System.out.print("Close-");
    }
    public void open() {
        System.out.print("Open-");
    }
}
```

and this code fragment:

```

Resource res1 = new Resource();
try {
    res1.open();
    res1.close();
} catch (Exception e) {
    System.out.println("Exception - 1");
}
try (res1 = new Resource()) { // line n1
    res1.open();
} catch (Exception e) {
    System.out.println("Exception - 2");
}

```

What is the result?

- A. Open-Close- Exception - 1
- B. Open-Close-
- C. A compilation error occurs at line n1.
- D. Open-Close-Open-

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

## 97.Which is the valid definition of the Course enum?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

Given the code fragment:

```

for (Course a : Course.values()){
    System.out.print(a + " Fees " + a.getCost()+" " );
}

```

Which is the valid definition of the Course enum?

- A.
 

```

enum Course { JAVA(100), J2ME(150);
    private int cost;
    public Course(int c) {
        this.cost = c;
    }
    int getCost() {
        return cost;
    }
}
      
```
- B.

```

enum Course { JAVA(100), J2ME(150);
    private static int cost;
    private Course(int c) {
        this.cost = c;
    }
    static int getCost() {
        return cost;
    }
}

C.

final enum Course { JAVA(100), J2ME(150);
    private int cost;
    public Course(int c) {
        this.cost = c;
    }
    int getCost() {
        return cost;
    }
    void setCost(int c) {
        this.cost = c;
    }
}

D.

enum Course { JAVA(100), J2ME(150);
    private int cost;
    Course(int c) {
        this.cost = c;
    }
    int getCost() {
        return cost;
    }
}

```

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 98.Which is the result?

[12/20/2019](#) – by [Mod\\_GuideK4](#)

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(
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
```

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 99.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

Given the code fragment:

```
final String str1 = "Java";
StringBuffer strBuf = new StringBuffer("Course");
UnaryOperator<String> u = (str2) -> str1.concat(str2); // line n1
UnaryOperator<String> c = (str3) -> str3.toLowerCase();
System.out.println(u.apply(c.apply(strBuf))); // line n2
```

What is the result?

- A. A compilation error occurs at line n1.
- B. courseJava
- C. Javacourse
- D. A compilation error occurs at line n2.

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

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

[12/20/2019](#) – by [Mod\\_GuideK3](#)

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"));

[HIDE ANSWERS](#)

**Correct Answer: B**

## 101.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

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:

[HIDE ANSWERS](#)

**Correct Answer: A**

## 102.Which code fragment should be added at line n1 to express this invariant condition?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

Given:

```
class Engine {
    double fuelLevel;
    Engine(int fuelLevel) { this.fuelLevel = fuelLevel; }
    public void start() {
        // line n1
        System.out.println("Started");
    }
    public void stop() { System.out.println("Stopped"); }
}
```

Your design requires that:

- fuelLevel of Engine must be greater than zero when the start() method is invoked.
- The code must terminate if fuelLevel of Engine is less than or equal to zero.

Which code fragment should be added at line n1 to express this invariant condition?

- A. assert (fuelLevel) : "Terminating...";
- B. assert (fuelLevel > 0) : System.out.println ("Impossible fuel");

- C. assert fuelLevel < 0: System.exit(0);  
D. assert fuelLevel > 0: "Impossible fuel" ;

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

## 103.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK5](#)

Given the code fragment:

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.

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 104.Which code fragment, when inserted at line n1, enables the code to print /First.txt?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given the code fragment:

```
//line n1
System.out.println(iP);
```

Which code fragment, when inserted at line n1, enables the code to print /First.txt?

- A. Path iP = new Paths ("/First.txt");
- B. Path iP = Paths.toPath ("/First.txt");
- C. Path iP = new Path ("/First.txt");
- D. Path iP = Paths.get ("/", "First.txt");

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 105.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK4](#)

Given the code fragment:

```

public static Optional<String> getCountry(String loc) {
    Optional<String> couName = Optional.empty();
    if ("Paris".equals(loc))
        couName = Optional.of("France");
    else if ("Mumbai".equals(loc))
        couName = Optional.of("India");
    return couName;
}

and
Optional<String> city1 = getCountry("Paris");
Optional<String> city2 = getCountry("Las Vegas");
System.out.println(city1.orElse("Not Found"));
if (city2.isPresent())
    city2.ifPresent(x -> System.out.println(x));
else
    System.out.println(city2.orElse("Not Found"));

```

What is the result?

- A. France**  
Optional[NotFound]
- B. Optional [France]**  
Optional [NotFound]
- C. Optional[France]**  
Not Found
- D. France**  
Not Found

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 106.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK4](#)

Given the code fragment:

```

public static void main(String[] args) {
    Console console = System.console();
    char[] pass = console.readPassword("Enter password:"); // line n1
    String password = new String(pass); // line n2
}

```

What is the result?

- A. A compilation error occurs at line n1.**
- B. A compilation error occurs at line n2.**
- C. The code reads the password without echoing characters on the console.**
- D. A compilation error occurs because the IOException isn't declared to be thrown or caught?**

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 107.What is the result?

12/20/2019 – by [Mod\\_GuideK4](#)

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

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 108.What is the result?

12/20/2019 – by [Mod\\_GuideK4](#)

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.

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

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

[12/20/2019](#) – by [Mod\\_GuideK4](#)

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

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

Reference: <https://docs.oracle.com/javase/8/docs/api/java/util/function/package-summary.html>

## 110.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK1](#)

Given the code fragment:

```
Stream<List<String>> strs = Stream.of(
    Arrays.asList("text1", "text2"),
    Arrays.asList("text2", "text3"));
Stream<String> bs2 = strs
    .filter(b -> b.contains("text1"))
    .flatMap(rs -> rs.stream());
bs2.forEach(b -> System.out.print(b));
```

What is the result?

- A. text1text2
- B. text1text2text2text3
- C. text1
- D. [text1, text2]

[HIDE ANSWERS](#)

**Correct Answer: A**

## 111.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK1](#)

Given the code fragment:

```
LocalTime now = LocalTime.now();
long timeToBreakfast = 0;
LocalTime office_start = LocalTime.of(7, 30);
if (office_start.isAfter(now)) {
    timeToBreakfast = now.until(office_start, MINUTES);
} else {
    timeToBreakfast = now.until(office_start, HOURS);
}
System.out.println(timeToBreakfast);
```

Assume that the value of now is 6:30 in the morning.

What is the result?

- A. An exception is thrown at run time.
- B. 0
- C. 60
- D. 1

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

## 112.Which two are elements of a singleton class?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

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

[HIDE ANSWERS](#)

**Correct Answer: BD**

## 113.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given the code fragments:

```
class R implements Runnable {  
    public void run() { System.out.println("Run..."); }  
}  
  
class C implements Callable<String> {  
    public String call() throws Exception { return "Call..."; }  
}
```

and

```
ExecutorService es = Executors.newSingleThreadExecutor();  
es.execute(new R()); // line n1  
Future<String> f1 = es.submit(new C()); // line n2  
System.out.println(f1.get());  
es.shutdown();
```

What is the result?

- A. The program prints Run... and throws an exception.
- B. A compilation error occurs at line n1.
- C. Run...  
Call...
- D. A compilation error occurs at line n2.

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

## 114.Which two code fragments, when inserted at line n1 independently, enable the code to print TruckCarBike?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

```

Given:
public class Vehicle {
    int vId;
    String vName;
    public Vehicle(int vIdArg, String vNameArg) {
        this.vId = vIdArg;
        this.vName = vNameArg;
    }
    public int getVId() { return vId; }
    public String getVName() { return vName; }
    public String toString() {
        return vName;
    }
}

and the code fragment:
List<Vehicle> vehicle = Arrays.asList(
    new Vehicle(2, "Car"),
    new Vehicle(3, "Bike"),
    new Vehicle(1, "Truck"));
vehicle.stream()
    // line n1
    .forEach(System.out::print);

```

Which two code fragments, when inserted at line n1 independently, enable the code to print TruckCarBike?

- A. .sorted ((v1, v2) -> v1.getVId() < v2.getVId())
- B. .sorted (Comparable.comparing (Vehicle: :getVName)).reversed ()
- C. .map (v -> v.getVid())
- .sorted ()
- D. .sorted((v1, v2) -> Integer.compare(v1.getVId(), v2.getVId()))
- E. .sorted(Comparator.comparing ((Vehicle v) -> v.getVId()))

[HIDE ANSWERS](#)

**Correct Answer: DE**

Explanation/Reference:

## 115.What is the result?

[12/20/2019 – by Mod\\_GuideK3](#)

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. David**  
David  
[Susan, Allen]

**B. Susan**  
Susan  
[Susan, Allen]

**C. Susan**  
Allen  
[David]

**D. David**  
Allen  
[Susan]

**E. Susan**  
Allen  
[Susan, David]

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

## 116.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

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

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 117.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

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.

[HIDE ANSWERS](#)

**Correct Answer: A**

## 118.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK6](#)

Given the code fragment:

```
List<String> words = Arrays.asList("win", "try", "best", "luck", "do");
Predicate<String> test1 = w -> {
    System.out.println("Checking...");
    return w.equals("do");                      // line n1
};
Predicate test2 = (String w) -> w.length() > 3; // line n2
words.stream()
    .filter(test2)
    .filter(test1)
    .count();
```

What is the result?

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

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 119.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

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.

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 120.Which code fragment prints the contents of the customers.txt file?

[12/20/2019](#) – by [Mod\\_GuideK1](#)

Assume customers.txt is accessible and contains multiple lines.

Which code fragment prints the contents of the customers.txt file?

- A. Stream<String> stream = Files.find(Paths.get("customers.txt"));  
stream.forEach((String c) -> System.out.println(c));
- B. Stream<Path> stream = Files.find(Paths.get("customers.txt"));  
stream.forEach( c -> System.out.println(c));
- C. Stream<Path> stream = Files.list(Paths.get("customers.txt")); stream.forEach(  
c -> System.out.println(c));
- D. Stream<String> lines = Files.lines(Paths.get("customers.txt")); lines.forEach(  
c -> System.out.println(c));

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 121.Which modification enables the code to print Price 5 New Price 4?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given the code fragment:

```
List<Integer> prices = Arrays.asList(3, 4, 5);
prices.stream()
    .filter(e -> e > 4)
    .peek(e -> System.out.print("Price " + e)) // line n1
    .map(n -> n - 1) // line n2
    .peek(n -> System.out.println(" New Price " + n)); // line n3
```

Which modification enables the code to print Price 5 New Price 4?

- A. Replace line n2 with .map (n -> System.out.println ("New Price" + n -1)) and remove line n3
- B. Replace line n2 with .mapToInt (n -> n - 1);
- C. Replace line n1 with .forEach (e -> System.out.print ("Price" + e))
- D. Replace line n3 with .forEach (n -> System.out.println ("New Price" + n));

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 122.Which option fails?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

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");

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 123.Which code fragment is required to load a JDBC 3.0 driver?

[12/20/2019](#) – by [Mod\\_GuideK1](#)

Which code fragment is required to load a JDBC 3.0 driver?

- A. `Connection con = Connection.getDriver("jdbc:xyzdata://localhost:3306/EmployeeDB");`
- B. `Class.forName("org.xyzdata.jdbc.NetworkDriver");`
- C. `Connection con = DriverManager.getConnection("jdbc:xyzdata://localhost:3306/EmployeeDB");`
- D. `DriverManager.loadDriver ("org.xyzdata.jdbc.NetworkDriver");`

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 124.Which two methods from the java.util.stream.Stream interface perform a reduction operation?

[12/20/2019](#) – by [Mod\\_GuideK1](#)

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 ()`

[HIDE ANSWERS](#)

**Correct Answer: AB**

## 125.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

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 ESE
- B. Java EESE
- C. The program prints either:Java EEJava SE or

Java SEJava EE  
D. Java EEJava SE

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 126.Which statement can be inserted into line n1 to print 1,2; 1,10; 2,20;?

[12/20/2019](#) – by [Mod\\_GuideK5](#)

Given the code fragment:

```
Map<Integer, Integer> mVal = new HashMap<>();  
mVal.put(1, 10);  
mVal.put(2, 20);  
//line n1  
c.accept(1, 2);  
mVal.forEach(c);
```

Which statement can be inserted into line n1 to print 1,2; 1,10; 2,20;?

- A. BiConsumer<Integer, Integer> c = (i, j) -> {System.out.print (i + "," + j+ " ; ");};
- B. BiFunction<Integer, Integer, String> c = (i, j) -> {System.out.print (i + "," + j+ " ; ");};
- C. BiConsumer<Integer, Integer, String> c = (i, j) -> {System.out.print (i + "," + j+ " ; ");};
- D. BiConsumer<Integer, Integer, Integer> c = (i, j) -> {System.out.print (i + "," + j+ " ; ");};

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

Reference: <https://www.concretewebpage.com/java/jdk-8/java-8-biconsumer-bifunction-bipredicate-example>

## 127.Which definition of ProductCode meets the requirement?

[12/20/2019](#) – by [Mod\\_GuideK4](#)

Given the code fragment:

```
ProductCode<Number, Integer> c1 = new ProductCode<Number, Integer>(); /* c1  
instantiation */  
ProductCode<Number, String> c2 = new ProductCode<Number, String>(); /* c2  
instantiation */
```

You have been asked to define the ProductCode class. The definition of the ProductCode class must allow c1 instantiation to succeed and cause a compilation error on c2 instantiation.

Which definition of ProductCode meets the requirement?

A.

```
class ProductCode<T, S<Integer>> {  
    T c1;  
    S c2;  
}
```

B.

```

class ProductCode<T, S extends T> {
    T c1;
    S c2;
}
C.
class ProductCode<T, S> {
    T c1;
    S c2;
}
D.
class ProductCode<T, S super T> {
    T c1;
    S c2;
}

```

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 128.Which statement is true about the Book class?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

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.

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 129.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

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; }
}

^
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.

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 130.Which two interfaces can you use to create lambda expressions?

[12/20/2019](#) – by [Mod\\_GuideK4](#)

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

[HIDE ANSWERS](#)

**Correct Answer: CD**

Explanation/Reference:

## 131.What is the result ?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

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

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 132.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

```

Given:
class Person {
    String name;
    int age;
    public Person(String name, int age) {
        this.name = name;
        this.age = age;
    }
    public String getName() { return name; }
    public int getAge() { return age; }
}

```

and the code fragment:

```

List<Person> sts = Arrays.asList(
    new Person("Jack", 30),
    new Person("Mike Hill", 21),
    new Person("Thomas Hill", 24));
Stream<Person> resList = sts.stream().filter(s -> s.getAge() >= 25); // n1
long count = resList.filter(s -> s.getName().contains("Hill")).count();
System.out.print(count);

```

What is the result?

- A. 0
- B. A compilation error occurs at line n1.
- C. An Exception is thrown at run time.
- D. 2

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

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

[12/20/2019](#) – by [Mod\\_GuideK4](#)

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"));

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 134.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given the code fragment:

```
Deque<Integer> nums = new ArrayDeque<>();
nums.add(1000);
nums.push(2000);
nums.add(3000);
nums.push(4000);
Integer i1 = nums.remove();
Integer i2 = nums.pop();
System.out.println(i1 + " : " + i2);
```

What is the result?

- A. 4000 : 2000
- B. 4000 : 1000
- C. 1000 : 4000
- D. 1000 : 2000

[HIDE ANSWERS](#)

**Correct Answer: B**

## 135.Which class definition compiles?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

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() { }
    };
}

```

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 136.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

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.

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 137.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given that version.txt is accessible and contains:

```
12245678000 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.

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 138.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given the code fragment:

```
List<String> qwords = Arrays.asList("why ", "what ", "when ");  
BinaryOperator<String> operator = (s1, s2) -> s1.concat(s2); // line n1  
String sen = qwords.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.

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

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

[12/20/2019](#) – by [Mod\\_GuideK2](#)

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);`

[HIDE ANSWERS](#)

**Correct Answer: BD**

Explanation/Reference:

## 140.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given:

```
interface Interface1 {
    public default void sayHi() {
        System.out.println("Hi Interface-1");
    }
}

interface Interface2 {
    public default void sayHi() {
        System.out.println("Hi Interface-2");
    }
}
public class MyClass implements Interface1, Interface2 {
    public static void main(String[] args) {
        Interface1 obj = new MyClass();
        obj.sayHi();
    }
    public void sayHi() {
        System.out.println("Hi MyClass");
    }
}
```

What is the result?

- A. Hi Interface-2
- B. A compilation error occurs.
- C. Hi Interface-1
- D. Hi MyClass

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

## 141.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given:

```
class Person {
    private String firstName;
    private int salary;
    public Person(String fN, int sal) {
        this.firstName = fN;
        this.salary = sal;
    }
    public int getSalary() { return salary; }
    public String getFirstName() { return firstName; }
}
```

and the code fragment:

```

List<Person> prog = Arrays.asList(
    new Person("Smith", 1500),
    new Person("John", 2000),
    new Person("Joe", 1000));
double dVal = prog.stream()
    .filter(s -> s.getFirstName().startsWith("J"))
    .mapToInt(Person::getSalary)
    .average()
    .getAsDouble();
System.out.print(dVal);

```

What is the result?

- A. 0.0
- B. 1500.0
- C. A compilation error occurs.
- D. 2000.0

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

## 142.Which two modifications enable to sort the elements of the emps list?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

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>

[HIDE ANSWERS](#)

**Correct Answer: BC**

Explanation/Reference:

**143.Which two code fragments, when inserted at line n1 independently, result in the output PEEK: Unix?**

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given the code fragment:

```
public static void main(String[] args) {  
    Stream.of("Java", "Unix", "Linux")  
        .filter(s -> s.contains("n"))  
        .peek(s -> System.out.println("PEEK: " + s))  
    // line n1  
}
```

Which two code fragments, when inserted at line n1 independently, result in the output PEEK: Unix?

- A. .anyMatch () ;
- B. .allMatch () ;
- C. .findAny () ;
- D. .noneMatch () ;
- E. .findFirst () ;

[HIDE ANSWERS](#)

**Correct Answer: CE**

**144.Which definition of the ColorSorter class sorts the blocks list?**

[12/20/2019](#) – by [Mod\\_GuideK4](#)

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);
    }
}

```

[HIDE ANSWERS](#)

**Correct Answer: C**

## 145.What is the result?

12/20/2019 – by [Mod\\_GuideK2](#)

Given the Greetings.properties file, containing:

```

HELLO_MSG = Hello, everyone!
GOODBYE_MSG = Goodbye everyone!

```

and given:

```
import java.util.Enumeration;
import java.util.Locale;
import java.util.ResourceBundle;

public class ResourcesApp {
    public void loadResourceBundle() {
        ResourceBundle resource = ResourceBundle.getBundle("Greetings", Locale.US);
        System.out.println(resource.getObject(1));
    }
    public static void main(String[] args) {
        new ResourcesApp().loadResourceBundle();
    }
}
```

What is the result?

- A. Compilation fails.
- B. GOODBY\_MSG
- C. Hello, everyone!
- D. Goodbye everyone!
- E. HELLO\_MSG

[HIDE ANSWERS](#)

**Correct Answer: A**

## 146.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given the Greetings.properties file, containing:

```
HELLO_MSG = Hello, everyone!
GOODBYE_MSG = Goodbye everyone!
```

and given:

```
import java.util.Enumeration;
import java.util.Locale;
import java.util.ResourceBundle;

public class ResourcesApp {
    public void loadResourceBundle() {
        ResourceBundle resource = ResourceBundle.getBundle("Greetings", Locale.US);
        System.out.println(resource.getObject(1));
    }
    public static void main(String[] args) {
        new ResourcesApp().loadResourceBundle();
    }
}
```

What is the result?

- A. Compilation fails.
- B. GOODBY\_MSG
- C. Hello, everyone!
- D. Goodbye everyone!
- E. HELLO\_MSG

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 147.Which code fragment can be inserted at line n1 to enable the code to print Connection Established?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given the code fragment:

```
Connection con = null;
try {
    // line n1
    if(con != null){
        System.out.print("Connection Established.");
    }

} catch (Exception e) {
    System.out.print(e);
}
```

Assume that dbURL, userName, and password are valid.

Which code fragment can be inserted at line n1 to enable the code to print Connection Established?

- A. Properties prop = new Properties(); prop.put ("user", userName); prop.put ("password", password); con = DriverManager.getConnection (dbURL, prop);
- B. con = DriverManager.getConnection (userName, password, dbURL);
- C. Properties prop = new Properties(); prop.put ("userid", userName); prop.put ("password", password); prop.put("url", dbURL); con = DriverManager.getConnection (prop);
- D. con = DriverManager.getConnection (dbURL); con.setClientInfo ("user", userName); con.setClientInfo ("password", password);

[HIDE ANSWERS](#)

**Correct Answer: A**

## 148.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

Given the code fragments:

```

public class Test {
    List<String> list = null;
    public void printValues() {
        System.out.print(getList());
    }
    public List<String> getList(){ return list; }
    public void setList(List<String> newList){ list = newList; }
}

and
List<String> li = Arrays.asList("Dog", "Cat", "Mouse");
Test t = new Test();
t.setList(li.stream().collect(Collectors.toList()));
t.getList().forEach(Test::printValues);

```

What is the result?

- A. null
- B. A compilation error occurs.
- C. DogCatMouse
- D. [Dog, Cat, Mouse]

[HIDE ANSWERS](#)

**Correct Answer: D**

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

[12/20/2019](#) – by [Mod\\_GuideK5](#)

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);

[HIDE ANSWERS](#)

**Correct Answer: A**

## 150.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

Given the records from the STUDENT table:

sid	sname	semail
111	James	james@uni.com
112	Jane	jane@uni.com
114	John	john@uni.com

Given the code fragment:

```
public static void main(String[] args) throws SQLException {
    //code to load and register valid jdbc driver go here
    Connection con = DriverManager.getConnection(URL, username, password);
    Statement st = con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
        ResultSet.CONCUR_UPDATABLE);
    st.execute("SELECT * FROM student");
    ResultSet rs = st.getResultSet();
    rs.absolute(3);
    rs.moveToInsertRow();
    rs.updateInt(1, 113);
    rs.updateString(2, "Jannet");
    rs.updateString(3, "jannet@uni.com");
    rs.updateRow();
    rs.refreshRow();
    System.out.println(rs.getInt(1) + " : " + rs.getString(2) + " : " + rs.getString(3));
}
```

Assume that the URL, username, and password are valid.

What is the result?

**A. The STUDENT table is not updated and the program prints:**

114 : John : john@uni.com

**B. The STUDENT table is updated with the record:**

113 : Jannet : jannet@uni.com and the program prints:

114 : John : john@uni.com

**C. The STUDENT table is updated with the record:**

113 : Jannet : jannet@uni.com and the program prints:

113 : Jannet : jannet@uni.com

**D. A SQLException is thrown at run time.**

[HIDE ANSWERS](#)

**Correct Answer: D**

## 151.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK4](#)

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.

[HIDE ANSWERS](#)

**Correct Answer: B**

## 152.Which should be inserted into line n1 to print Average = 2.5?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

Given the code fragment:

```
//line n1
Double d = str.average().getAsDouble();
System.out.println("Average = " + d);
```

Which should be inserted into line n1 to print Average = 2.5?

- A. IntStream str = Stream.of (1, 2, 3, 4);
- B. IntStream str = IntStream.of (1, 2, 3, 4);
- C. DoubleStream str = Stream.of (1.0, 2.0, 3.0, 4.0);
- D. Stream str = Stream.of (1, 2, 3, 4);

[HIDE ANSWERS](#)

**Correct Answer: C**

## 153.Which two statements are true about synchronization and locks?

[12/20/2019](#) – by [Mod\\_GuideK4](#)

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.

[HIDE ANSWERS](#)

**Correct Answer: AB**

## 154.Which two statements are true about the Fork/Join Framework?

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Which two statements are true about the Fork/Join Framework? (Choose two.)

- A. The RecursiveTask subclass is used when a task does not need to return a result.
- B. The Fork/Join framework can help you take advantage of multicore hardware.
- C. The Fork/Join framework implements a work-stealing algorithm.
- D. The Fork/Join solution when run on multicore hardware always performs faster than standard sequential solution.

[HIDE ANSWERS](#)

**Correct Answer: AC**

## 155.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

Given the code fragments:

```
public class Video {  
    public void play() throws IOException {  
        System.out.print("Video played.");  
    }  
  
    public class Game extends Video {  
        public void play() throws Exception {  
            super.play();  
            System.out.print("Game played.");  
        }  
    }  
}  
and  
try {  
    new Game().play();  
} catch (Exception e) {  
    System.out.print(e.getClass());  
}
```

What is the result?

- A. Video played.Game played.
- B. A compilation error occurs.
- C. class java.lang.Exception
- D. class java.io.IOException

[HIDE ANSWERS](#)

**Correct Answer: C**

Explanation/Reference:

## 156.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK7](#)

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(scr));
```

What is the result?

A. [Java EE: Helen:Houston]

[Java ME: Jessy:Chicago, Java ME: Mark:Chicago]

B. Java EE

Java ME

C. [Java ME: Jessy:Chicago, Java ME: Mark:Chicago]

[Java EE: Helen:Houston]

D. A compilation error occurs.

[HIDE ANSWERS](#)

**Correct Answer: D**

Explanation/Reference:

**157.What is required at line n1 to enable the code to overwrite alldata.txt with data.txt?**

[12/20/2019](#) – by [Mod\\_GuideK2](#)

Given that data.txt and alldata.txt are accessible, and the code fragment:

```
public void writeFiles() throws IOException {
    BufferedReader br = new BufferedReader(new FileReader("data.txt"));
    BufferedWriter bw = new BufferedWriter(new FileWriter("alldata.txt"));
    String line = null;
    while ((line = br.readLine()) != null) {
        bw.append(line + "\n");
    }
    // line n1
}
```

What is required at line n1 to enable the code to overwrite alldata.txt with data.txt?

- A. br.close();
- B. bw.writeln();
- C. br.flush();
- D. bw.flush();

[HIDE ANSWERS](#)

**Correct Answer: D**

## 158.What is true about the java.sql.Statement interface?

[12/20/2019](#) – by [Mod\\_GuideK3](#)

What is true about the java.sql.Statement interface?

- A. It provides a session with the database.
- B. It is used to get an instance of a Connection object by using JDBC drivers.
- C. It provides a cursor to fetch the resulting data.
- D. It provides a class for executing SQL statements and returning the results.

[HIDE ANSWERS](#)

**Correct Answer: D**

## 159.What is the result?

[12/20/2019](#) – by [Mod\\_GuideK6](#)

Given the definition of the Employee class:

```
class Employee {  
    String dept, name;  
    public Employee(String d, String n) {  
        dept = d;  
        name = n;  
    }  
    public String toString() {  
        return getDept() + ":" + getName();  
    }  
    public String getDept() { return dept; }  
    public String getName() { return name; }  
}
```

and this code fragment:

```
List<Employee> emps = Arrays.asList(new Employee("sales", "Ada"),  
    new Employee("sales", "Bob"),  
    new Employee("hr", "Bob"),  
    new Employee("hr", "Eva"));  
Stream<Employee> s = emps.stream()  
    .sorted(Comparator.comparing((Employee e) -> e.getDept())  
        .thenComparing((Employee e) -> e.getName()));  
List<Employee> eSorted = s.collect(Collectors.toList());  
System.out.println(eSorted);
```

What is the result?

- A. [sales:Ada, hr:Bob, sales:Bob, hr:Eva]
- B. [Ada:sales, Bob:sales, Bob:hr, Eva:hr]
- C. [hr:Eva, hr:Bob, sales:Bob, sales:Ada]
- D. [hr:Bob, hr:Eva, sales:Ada, sales:Bob]

[HIDE ANSWERS](#)

**Correct Answer: A**

Explanation/Reference:

## 160.What threading problem does the program suffer?

Given:

```
class Counter extends Thread {  
    int i = 10;  
    public synchronized void display(Counter obj) {  
        try {  
            Thread.sleep(5);  
            obj.increment(this);  
            System.out.println(i);  
        } catch (InterruptedException ex) {}  
    }  
    public synchronized void increment (Counter obj) {  
        i++;  
    }  
}  
public class Test {  
    public static void main(String[] args) {  
        final Counter obj1 = new Counter();  
        final Counter obj2 = new Counter();  
        new Thread(new Runnable() {  
            public void run() {obj1.display(obj2);}  
        }).start();  
        new Thread(new Runnable() {  
            public void run() { obj2.display(obj1); }  
        }).start();  
    }  
}
```

From what threading problem does the program suffer?

- A. race condition
- B. deadlock
- C. starvation
- D. livelock

[HIDE ANSWERS](#)

**Correct Answer: B**

Explanation/Reference:

Question 1/70 - 1z0-809.v2019-06-24

---

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}

Correct Answer: **B**

#### Question 2/70 - 1z0-809.v2019-06-24

---

Given the code fragment:

```
Stream<List<String>> strs = Stream.of(
    Arrays.asList("text1", "text2"),
    Arrays.asList("text2", "text3"));
Stream<String> bs2 = strs
    .filter(b -> b.contains("text1"))
    .flatMap(rs -> rs.stream());
bs2.forEach(b -> System.out.print(b));
```

What is the result?

- A. [text1, text2]  B. text1text2text2text3  C. text1  D. text1text2

Correct Answer: **D**

#### Question 3/70 - 1z0-809.v2019-06-24

---

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

Correct Answer: **B**

#### Question 4/70 - 1z0-809.v2019-06-24

---

Given the code fragments:

```
public class Test {  
    List<String> list = null;  
    public void printValues() {  
        System.out.print(getList());  
    }  
    public List<String> getList(){ return list; }  
    public void setList(List<String> newList){ list = newList; }  
}
```

and

```
List<String> li = Arrays.asList("Dog", "Cat", "Mouse");  
Test t = new Test();  
t.setList(li.stream().collect(Collectors.toList()));  
t.getList().forEach(Test::printValues);
```

What is the result?

- A. [Dog, Cat, Mouse]
- B. null
- C. DogCatMouse
- D. A compilation error occurs.

Correct Answer: **A**

---

### Question 5/70 - 1z0-809.v2019-06-24

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.

Correct Answer: **B**

---

### Question 6/70 - 1z0-809.v2019-06-24

Given the code fragment:

```
List<Integer> prices = Arrays.asList(3, 4, 5);
prices.stream()
    .filter(e -> e > 4)
    .peek(e -> System.out.print("Price " + e)) // line n1
    .map(n -> n - 1) // line n2
    .peek(n -> System.out.println(" New Price " + n)); // line n3
```

Which modification enables the code to print Price 5 New Price 4?

- A. Replace line n1 with .forEach (e -> System.out.print ("Price" + e))
- B. Replace line n2 with .mapToInt (n -> n - 1);
- C. Replace line n3 with .forEach (n -> System.out.println ("New Price" + n));
- D. Replace line n2 with .map (n -> System.out.println ("New Price" + n -1)) and remove line n3

**Correct Answer: C**

### Question 7/70 - 1z0-809.v2019-06-24

Which code fragment is required to load a JDBC 3.0 driver?

- A. Connection con = DriverManager.getConnection ("jdbc:xyzdata://localhost:3306/EmployeeDB");
- B. Connection con = Connection.getDriver ("jdbc:xyzdata://localhost:3306/EmployeeDB");
- C. Class.forName("org.xyzdata.jdbc.NetworkDriver");
- D. DriverManager.loadDriver ("org.xyzdata.jdbc.NetworkDriver");

**Correct Answer: C**

### Question 8/70 - 1z0-809.v2019-06-24

Given the code fragments:

```
4 . void doStuff() throws ArithmeticException, NumberFormatException, Exception
{
5 . if (Math.random() >-1 throw new Exception ("Try again");
6 . }
and
2 4. try {
2 5. doStuff ( );
2 6. } catch (ArithmeticException | NumberFormatException | Exception e) {
2 7. System.out.println (e.getMessage()); }
2 8. catch (Exception e) {
2 9. System.out.println (e.getMessage()); }
3 0. }
```

Which modification enables the code to print Try again?

- A. Replace line 26 with:  
} catch (ArithmeticException | NumberFormatException e) {
- B. Replace line 27 with:  
B. Replace line 27 with:

throw e;  C. Comment the lines 28, 29 and 30.  D. Replace line 26 with:  
} catch (Exception | ArithmeticException | NumberFormatException e) {

**Correct Answer: A**

Question 9/70 - 1z0-809.v2019-06-24

---

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. false  
false  B. true
- C. true  
true  D. false  
false  
true

**Correct Answer: C**

Question 10/70 - 1z0-809.v2019-06-24

---

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

**Correct Answer: B**

Question 11/70 - 1z0-809.v2019-06-24

---

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

**Correct Answer: B**

### Question 12/70 - 1z0-809.v2019-06-24

---

Given the code fragment:

```
List<Integer> nums = Arrays.asList (10, 20, 8);
System.out.println (
//line n1
);
```

Which code fragment must be inserted at line n1 to enable the code to print the maximum number in the nums list?

- A. nums.stream().max(Integer :: max).get()
- B. nums.stream().max()
- C. nums.stream().map(a -> a).max()
- D. nums.stream().max(Comparator.comparing(a -> a)).get()

**Correct Answer: D**

### Question 13/70 - 1z0-809.v2019-06-24

---

Which statement is true about java.util.stream.Stream?

- A. Streams are intended to modify the source data.
- B. The execution mode of streams can be changed during processing.
- C. A stream cannot be consumed more than once.
- D. A parallel stream is always faster than an equivalent sequential stream.

**Correct Answer: B**

### Question 14/70 - 1z0-809.v2019-06-24

---

Given the code fragments:

```
class ThreadRunner implements Runnable {  
    public void run () { System.out.print ("Runnable") ; }  
}  
class ThreadCaller implements Callable {  
    Public String call () throws Exception {return "Callable"; }  
}  
and  
ExecutorService es = Executors.newCachedThreadPool ();  
Runnable r1 = new ThreadRunner ();  
Callable c1 = new ThreadCaller ();  
// line n1  
es.shutdown();
```

Which code fragment can be inserted at line n1 to start r1 and c1 threads?

- A. Future<String> f1 = (Future<String>) es.execute(r1);
  - B. Future<String> f1 = (Future<String>) es.submit (r1);
  - C. es.submit(r1);
  - D. es.execute (r1);
- Future<String> f1 = es.submit (c1);

**Correct Answer: C**

### Question 15/70 - 1z0-809.v2019-06-24

Given the records from the Employee table:

eid	ename
111	Tom
112	Jerry
113	Donald

and given the code fragment:

```
try {  
    Connection conn = DriverManager.getConnection (URL, userName,  
    passWord);  
    Statement st = conn.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,  
    ResultSet.CONCUR_UPDATABLE);  
    st.execute("SELECT*FROM Employee");  
    ResultSet rs = st.getResultSet();  
    while (rs.next()) {  
        if (rs.getInt(1) ==112) {  
            rs.updateString(2, "Jack");  
        }  
        rs.absolute(2);  
        System.out.println(rs.getInt(1) + " " + rs.getString(2));  
    } catch (SQLException ex) {  
        System.out.println("Exception is raised");  
    }
```

Assume that:

The required database driver is configured in the classpath.

The appropriate database accessible with the URL, userName, and passWordexists.  
What is the result?

- A. The Employee table is updated with the row:

1 12 Jack

and the program prints:

1 12 Jack  B. The Employee table is updated with the row:

1 12 Jack

and the program prints:

1 12 Jerry  C. The Employee table is not updated and the program prints:

1 12 Jerry  D. The program prints Exception is raised.

**Correct Answer: C**

### Question 16/70 - 1z0-809.v2019-06-24

---

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(scr));
```

What is the result?

- A. A compilation error occurs.  B. Java EE

Java ME  C. [Java EE: Helen:Houston]

[Java ME: Jessy:Chicago, Java ME: Mark:Chicago]  D. [Java ME: Jessy:Chicago, Java ME:  
Mark:Chicago]

[ Java EE: Helen:Houston]

**Correct Answer: B**

### Question 17/70 - 1z0-809.v2019-06-24

---

Given the code fragment:

```
List<String> words = Arrays.asList("win", "try", "best", "luck", "do");
Predicate<String> test1 = w -> {
    System.out.println("Checking...");
    return w.equals("do");                                // line n1
};
Predicate test2 = (String w) -> w.length() > 3; // line n2
words.stream()
    .filter(test2)
    .filter(test1)
    .count();
```

What is the result?

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

Checking...

**Correct Answer: A**

Question 18/70 - 1z0-809.v2019-06-24

---

Given the code fragment:

```
Path path1 = Paths.get("/app./sys/");
Path res1 = path1.resolve("log");
Path path2 = Paths.get("/server/exe/");
Path res1 = path1.resolve("/readme/");
System.out.println(res1);
System.out.println(res2);
```

What is the result?

- A. /app/log/sys
- B. /app./sys/log
- C. /app./sys/log
- D. /app/sys/log

/readme

/readme/server/exe

**Correct Answer: C**

Question 19/70 - 1z0-809.v2019-06-24

---

Given:

```
class DataConverter {
    public void copyFlatFilesToTables() { }
    public void close() throws Exception {
        throw new RuntimeException(); // line n1
    }
}
```

and the code fragment:

```
public static void main(String[] args) throws Exception {  
    try (DataConverter dc = new DataConverter()) // line n2  
    { dc.copyFlatFilesToTables(); }  
}
```

What is the result?

- A. A compilation error occurs at line n2.
- B. The program compiles successfully.
- C. A compilation error occurs because the tryblock doesn't have a catchor finallyblock.
- D. A compilation error occurs at line n1.

**Correct Answer: C**

Question 20/70 - 1z0-809.v2019-06-24

---

Given the definition of the Vehicle class:

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

**Correct Answer: B**

Question 21/70 - 1z0-809.v2019-06-24

---

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-

**Correct Answer: C**

Question 22/70 - 1z0-809.v2019-06-24

---

Given the records from the STUDENTtable:

sid	sname	semail
111	James	james@uni.com
112	Jane	jane@uni.com
114	John	john@uni.com

Given the code fragment:

```

public static void main(String[] args) throws SQLException {
    //code to load and register valid jdbc driver go here
    Connection con = DriverManager.getConnection(URL, username, password);
    Statement st = con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
                                         ResultSet.CONCUR_UPDATABLE);
    st.execute("SELECT * FROM student");
    ResultSet rs = st.getResultSet();
    rs.absolute(3);
    rs.moveToInsertRow();
    rs.updateInt(1, 113);
    rs.updateString(2, "Jannet");
    rs.updateString(3, "jannet@uni.com");
    rs.updateRow();
    rs.refreshRow();
    System.out.println(rs.getInt(1) + " : " + rs.getString(2) + " : " + rs
(3));
}

```

Assume that the URL, username, and password are valid.

What is the result?

- A. The STUDENT table is not updated and the program prints:

1 14 : John : john@uni.com  B. A SQLException is thrown at run time.  C. The STUDENT table is updated with the record:

1 13 : Jannet : jannet@uni.com  
and the program prints:

1 13 : Jannet : jannet@uni.com  
1 13 : Jannet : jannet@uni.com  
and the program prints:  
1 14 : John : john@uni.com

- D. The STUDENT table is updated with the record:

**Correct Answer: B**

Question 23/70 - 1z0-809.v2019-06-24

---

Given:

```

1 . abstract class Shape {
2 . Shape () { System.out.println ("Shape"); }
3 . protected void area () { System.out.println ("Shape"); }
4 .
5 .
6 . class Square extends Shape {
7 . int side;
8 . Square int side {
9 . /* insert code here */
10 . this.side = side;
11 . }
12 . public void area () { System.out.println ("Square"); }
13 .
14 . class Rectangle extends Square {
15 . int len, br;
16 . Rectangle (int x, int y) {

```

```
17. /* insert code here */  
18. len = x, br = y;  
19.  
20. void area () { System.out.println ("Rectangle"); }  
21.
```

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

- A. At line 17, insert super (x);  B. At line 9, insert super ();  C. At line 17, insert super ();  
super.side = x;  D. At line 1, remove abstract  E. At line 12, remove public  F. At line 20,  
use public void area () {

**Correct Answer: A,F**

Question 24/70 - 1z0-809.v2019-06-24

---

Given the code fragment:

```
//line n1  
Double d = str.average().getAsDouble();  
System.out.println("Average = " + d);
```

Which should be inserted into line n1 to print Average = 2.5?

- A. DoubleStream str = Stream.of (1.0, 2.0, 3.0, 4.0);  B. IntStream str = Stream.of (1, 2, 3, 4);  
 C. IntStream str = IntStream.of (1, 2, 3, 4);  D. Stream str = Stream.of (1, 2, 3, 4);

**Correct Answer: A**

Question 25/70 - 1z0-809.v2019-06-24

---

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("f  
ResourceBundle messages = ResourceBundle.getBundle("MessagesBundle", curren  
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 = Enter User Name  
password = Enter Password  B. The program prints nothing.  C. A compilation error occurs.  
 D. username = Entrez le nom d'utilisateur  
password = Entrez le mot de passe

**Correct Answer: D**

Question 26/70 - 1z0-809.v2019-06-24

---

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(scr));
```

What is the result?

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

**Correct Answer: D**

Question 27/70 - 1z0-809.v2019-06-24

---

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. null  C. A NoSuchElementException is thrown at run time.  D. City Not available

**Correct Answer: D**

### Question 28/70 - 1z0-809.v2019-06-24

Which two statements are true about localizing an application? (Choose two.)

- A. Support for new regional languages does not require recompilation of the code.   
 B. Textual elements (messages and GUI labels) are hard-coded in the code.  C. Language and  
region-specific programs are created using localized data.  D. Resource bundle files include data  
and currency information.  E. Language codes use lowercase letters and region codes use  
uppercase letters.

**Correct Answer: A,E**

### Question 29/70 - 1z0-809.v2019-06-24

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

**Correct Answer: D**

Question 30/70 - 1z0-809.v2019-06-24

---

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

**Correct Answer: A,C**

Question 31/70 - 1z0-809.v2019-06-24

---

Given the code fragment:

```
Path path1 = Paths.get("/software/.../sys/readme.txt");
Path path2 = path1.normalize();
Path path3 = path2.relativize(path1);
System.out.print(path1.getNameCount());
System.out.print(" : " + path2.getNameCount());
System.out.print(" : " + path3.getNameCount());
```

What is the result?

- A. 6:5:6
- B. 3:3:4
- C. 5:3:6
- D. 4:4:4

**Correct Answer: D**

Question 32/70 - 1z0-809.v2019-06-24

---

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()
.forEach(System.out::println); //line n1
```

What is the result?

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

**Correct Answer:** C

### Question 33/70 - 1z0-809.v2019-06-24

---

Given that course.txt is accessible and contains:

Course : : Java

and given the code fragment:

```
public static void main (String[ ] args) {
int i;
char c;
try (FileInputStream fis = new FileInputStream ("course.txt");
InputStreamReader isr = new InputStreamReader(fis);) {
while (isr.ready()) { //line n1
isr.skip(2);
i = isr.read ();
c = (char) i;
System.out.print(c);
}
} catch (Exception e) {
e.printStackTrace();
}
}
```

What is the result?

- A. A compilation error occurs at line n1.
- B. ueJa
- C. The program prints nothing.
- D. ur

**Correct Answer:** B

### Question 34/70 - 1z0-809.v2019-06-24

---

Given:

```
class Person {  
    private String firstName;  
    private int salary;  
    public Person(String fN, int sal) {  
        this.firstName = fN;  
        this.salary = sal;  
    }  
    public int getSalary() { return salary; }  
    public String getFirstName() { return firstName; }  
}
```

and the code fragment:

```
List<Person> prog = Arrays.asList(  
    new Person("Smith", 1500),  
    new Person("John", 2000),  
    new Person("Joe", 1000));  
double dVal = prog.stream()  
    .filter(s -> s.getFirstName().startsWith("J"))  
    .mapToInt(Person::getSalary)  
    .average()  
    .getAsDouble();  
System.out.print(dVal);
```

What is the result?

- A. A compilation error occurs.  B. 2000.0  C. 0.0  D. 1500.0

**Correct Answer: D**

Question 35/70 - 1z0-809.v2019-06-24

---

Given the definition of the Bookclass:

```
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 Bookclass?

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

**Correct Answer: B**

Question 36/70 - 1z0-809.v2019-06-24

---

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. David

David

B. Susan

Susan

C. Susan

Allen

D. David

Allen

E. Susan

Allen

[Susan, David]

**Correct Answer: C**

Question 37/70 - 1z0-809.v2019-06-24

---

Given the code fragment:

```
Deque<Integer> nums = new ArrayDeque<>();
nums.add(1000);
nums.push(2000);
nums.add(3000);
nums.push(4000);
Integer i1 = nums.remove();
Integer i2 = nums.pop();
System.out.println(i1 + " : " + i2);
```

What is the result?

A. 1000 : 2000

B. 1000 : 4000

C. 4000 : 2000

D. 4000 : 1000

**Correct Answer: D**

Question 38/70 - 1z0-809.v2019-06-24

---

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

**Correct Answer: D**

## Question 39/70 - 1z0-809.v2019-06-24

---

Given the code fragments:

```
public class Book implements Comparator<Book> {
String name;
double price;
public Book () {}
public Book(String name, double price) {
this.name = name;
this.price = price;
}
public int compare(Book b1, Book b2) {
return b1.name.compareTo(b2.name);
}
public String toString() {
return name + ":" + price;
}
}
```

and

```
List<Book>books = Arrays.asList (new Book ("Beginning with Java", 2), new book
("A
Guide to Java Tour", 3));
Collections.sort(books, new Book());
System.out.print(books);
```

What is the result?

- A. [Beginning with Java:2, A Guide to Java Tour:3]  B. An Exception is thrown at run time.  
 C. [A Guide to Java Tour:3.0, Beginning with Java:2.0]  D. A compilation error occurs because the Book class does not override the abstract method compareTo ().

**Correct Answer: C**

Question 40/70 - 1z0-809.v2019-06-24

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

**Correct Answer: C**

Question 41/70 - 1z0-809.v2019-06-24

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?

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

Correct Answer: **D**

Question 42/70 - 1z0-809.v2019-06-24

---

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. IntFunction funRef = e -> e + 10;

Integer result = funRef.apply(10);

int result = funRef.apply(value);

Integer result = funRef.apply(value);

int result = funRef.applyAsInt(value);

B.ToIntFunction funRef = e -> e + 10;

C. Function<Integer> funRef = e -> e + 10;

D.ToIntFunction<Integer> funRef = e -> e + 10;

Correct Answer: **C**

---

Question 43/70 - 1z0-809.v2019-06-24

Given the code fragment:

```
List<Double> doubles = Arrays.asList(100.12, 200.32);
```

```
DoubleFunction funD = d -> d + 100.0;
doubles.stream().forEach(funD); // line n1
doubles.stream().forEach(e -> System.out.println(e)); // line n2
What is the result?
```

- A. A compilation error occurs at line n2.  B. 200.12  
300.32  C. 100.12  
200.32  D. A compilation error occurs at line n1.

**Correct Answer: A**

---

### Question 44/70 - 1z0-809.v2019-06-24

Given:

```
public class Customer {
    private String fName;
    private String lName;
    private static int count;
    public Customer (String first, String last) {fName = first, lName = last;
        ++count;}
    static { count = 0; }
    public static int getCount() {return count; }
}
public class App {
    public static void main (String [] args) {
        Customer c1 = new Customer("Larry", "Smith");
        Customer c2 = new Customer("Pedro", "Gonzales");
        Customer c3 = new Customer("Penny", "Jones");
        Customer c4 = new Customer("Lars", "Svenson");
        c4 = null;
        c3 = c2;
        System.out.println (Customer.getCount());
    }
}
```

What is the result?

- A. 3  B. 4  C. 2  D. 5  E. 0

**Correct Answer: B**

---

### Question 45/70 - 1z0-809.v2019-06-24

Given the code fragment:

```
List<Integer> list1 = Arrays.asList(10, 20);
List<Integer> list2 = Arrays.asList(15, 30);
//line n1
```

Which code fragment, when inserted at line n1, prints 10 20 15 30?

- A. Stream.of(list1, list2)  
.flatMapToInt(list -> list.stream())  
 B. Stream.of(list1, list2)  
.flatMap(list -> list.stream())  
 C. list1.stream()  
.flatMap(list2.stream().flatMap(e1 -> e1.stream()))  
 D. Stream.of(list1, list2)  
.flatMap(list -> list.intStream())  
.forEach(s -> System.out.print(s + " "));

**Correct Answer: B**

### Question 46/70 - 1z0-809.v2019-06-24

Given the code fragment:

```
List<String> li = Arrays.asList("Java", "J2EE", "J2ME", "JSTL", "JSP", "Oracle DB"
Predicate<String> val = p -> p.contains("J");
List<String> neLi = li.stream().filter(x -> x.length() > 3)
    .filter(val).collect(Collectors.toList());
System.out.println(neLi);
```

What is the result?

- A. [Java, J2EE, J2ME, JSTL, JSP]  B. [Java, J2EE, J2ME, JSTL]  C. A compilation error occurs.  D. null

**Correct Answer: B**

### Question 47/70 - 1z0-809.v2019-06-24

Given the code fragment:

```
List<Integer> values = Arrays.asList (1, 2, 3);
values.stream ()
    .map(n -> n*2) //line n1
    .peek(System.out::print) //line n2
    .count();
```

What is the result?

- A. 246  B. A compilation error occurs at line n1.  C. The code produces no output.  D. A compilation error occurs at line n2.

**Correct Answer: A**

### Question 48/70 - 1z0-809.v2019-06-24

Given the code fragment:

```
List<String> colors = Arrays.asList("red", "green", "yellow");
Predicate<String> test = n -> {
    System.out.println("Searching... ");
    return n.contains("red");
};
colors.stream()
    .filter(c -> c.length() > 3)
    .allMatch(test);
What is the result?
```

- A. Searching...  B. A compilation error occurs.  C. Searching...
- D. Searching...

Searching...  
Searching...  
Searching...

**Correct Answer: A**

---

### Question 49/70 - 1z0-809.v2019-06-24

Given the code fragment:

```
public static void main (String [ ] args) throws IOException {
    BufferedReader br = new BufferedReader (new InputStreamReader (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 = br.read();  B. int GDP = Integer.parseInt (br.readLine());  C. int GDP =  
br.nextInt();  D. int GDP = Integer.parseInt (br.next());

**Correct Answer: B**

---

### Question 50/70 - 1z0-809.v2019-06-24

Given the structure of the STUDENT table:

Student (id INTEGER, name VARCHAR)

Given:

```
public class Test {
    static Connection newConnection = null;
    public static Connection get DBConnection () throws SQLException {
        try (Connection con = DriverManager.getConnection(URL, username,
                password)) {
            newConnection = con;
        }
        return newConnection;
    }
    public static void main (String [] args) throws SQLException {
```

```
get DBConnection ();
Statement st = new Connection.createStatement();
st.executeUpdate("INSERT INTO student VALUES (102, 'Kelvin')");
}
}
```

Assume that:

The required database driver is configured in the classpath.

The appropriate database is accessible with the URL, userName, and passWord exists.

The SQL query is valid.

What is the result?

- A. A SQLException is thrown as runtime.
- B. The program executes successfully and the STUDENT table is NOT updated with any record.
- C. The program executes successfully and the STUDENT table is updated with one record.
- D. A NullPointerException is thrown as runtime.

**Correct Answer: A**

### Question 51/70 - 1z0-809.v2019-06-24

Given:

```
interface Interface1 {
    public default void sayHi() {
        System.out.println("Hi Interface-1");
    }
}

interface Interface2 {
    public default void sayHi() {
        System.out.println("Hi Interface-2");
    }
}

public class MyClass implements Interface1, Interface2 {
    public static void main(String[] args) {
        Interface1 obj = new MyClass();
        obj.sayHi();
    }
    public void sayHi() {
        System.out.println("Hi MyClass");
    }
}
```

What is the result?

- A. Hi Interface-1
- B. Hi MyClass
- C. Hi Interface-2
- D. A compilation error occurs.

**Correct Answer: B**

### Question 52/70 - 1z0-809.v2019-06-24

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

**Correct Answer: D**

### Question 53/70 - 1z0-809.v2019-06-24

Given the definition of the Employee class:

```
class Employee {  
    String dept, name;  
    public Employee(String d, String n) {  
        dept = d;  
        name = n;  
    }  
    public String toString() {  
        return getDept() + ":" + getName();  
    }  
    public String getDept() { return dept; }  
    public String getName() { return name; }  
}
```

and this code fragment:

```
List<Employee> emps = Arrays.asList(new Employee("sales", "Ada"),
                                         new Employee("sales", "Bob"),
                                         new Employee("hr", "Bob"),
                                         new Employee("hr", "Eva"));
Stream<Employee> s = emps.stream()
    .sorted(Comparator.comparing((Employee e) -> e.getDept())
            .thenComparing((Employee e) -> e.getName()));
List<Employee> eSorted = s.collect(Collectors.toList());
System.out.println(eSorted);
```

What is the result?

- A. [hr:Eva, hr:Bob, sales:Bob, sales:Ada]
- B. [hr:Bob, hr:Eva, sales:Ada, sales:Bob]
- C. [Ada:sales, Bob:sales, Bob:hr, Eva:hr]
- D. [sales:Ada, hr:Bob, sales:Bob, hr:Eva]

**Correct Answer: D**

---

### Question 54/70 - 1z0-809.v2019-06-24

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 Programming");
        Book b2 = new EBook();
        b2.read("http://ebook.com/ebook");
    }
}
```

What is the result?

- A. The Test.javafile fails to compile.
- B. The EBook.javafile fails to compile.
- C. Read Java Programming
- D. Read Java Programming

View http:/ ebook.com/ebook

Read http:/ ebook.com/ebook

**Correct Answer: A**

---

### Question 55/70 - 1z0-809.v2019-06-24

Given:

```
public class Job {  
    String name;  
    Integer cost;  
    Job(String name, Integer cost) {  
        this.name = name;  
        this.cost = cost;  
    }  
    String getName() { return name; }  
    int getCost() { return cost; }  
    public static void main(String[] args) {  
        Job j1 = new Job("IT", null);  
        DoubleSupplier js1 = j1::getCost;  
        System.out.println(j1.getName() + ":" + js1.getAsDouble());  
    }  
}
```

What is the result?

- A. A compilation error occurs.
- B. A NullPointerException is thrown at run time.
- C. IT:0.0
- D. IT:null

**Correct Answer: C**

Question 56/70 - 1z0-809.v2019-06-24

Given the code fragment:

```
List<Integer> codes = Arrays.asList (10, 20);  
UnaryOperator<Double> uo = s -> s +10.0;  
codes.replaceAll(uo);  
codes.forEach(c -> System.out.println(c));
```

What is the result?

- A. A compilation error occurs.
- B. 10
- C. 20.0
- D. A NumberFormatException is thrown at run time.

**Correct Answer: A**

Question 57/70 - 1z0-809.v2019-06-24

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

**Correct Answer: D**

### Question 58/70 - 1z0-809.v2019-06-24

Given the code fragment:

```
Path source = Paths.get ("/data/december/log.txt");  
Path destination = Paths.get("/data");
```

```
Files.copy (source, destination);
```

and assuming that the file /data/december/log.txt is accessible and contains:

10-Dec-2014 - Executed successfully

What is the result?

- A. The program executes successfully and does NOT change the file system.
- B. A FileNotFoundException is thrown at run time.
- C. A file with the name log.txt is created in the /data directory and the content of the /data/december/log.txt file is copied to it.
- D. A FileAlreadyExistsException is thrown at run time.

**Correct Answer: D**

### Question 59/70 - 1z0-809.v2019-06-24

Given:

```
public class Product {  
    int id; int price;  
    public Product (int id, int price) {  
        this.id = id;  
        this.price = price;
```

```

}
Public String toString () { return id + ":" + price;}
}
and the code fragment:
List<Product> products = new ArrayList <> (Arrays.asList(new Product(1, 10),
new Product (2, 30),
new Product (3, 20));
Product p = products.stream().reduce(new Product (4, 0), (p1, p2) -> {
p1.price+=p2.price;
return new Product (p1.id, p1.price);});
products.add(p);
products.stream().parallel()
.reduce((p1, p2) -> p1.price > p2.price ? p1 : p2)
.ifPresent(System.out::println);

```

What is the result?

- A. 4:60
- 2:30
- 3:20
- 1:10  B. 4:0  C. The program prints nothing  D. 4:60  E. 2:30

**Correct Answer: A**

### Question 60/70 - 1z0-809.v2019-06-24

---

Given the code fragment:

```
/line n1
System.out.println(ip);
```

Which code fragment, when inserted at line n1, enables the code to print /First.txt?

- A. Path iP = new Paths ("/First.txt");  B. Path iP = Paths.get ("/", "First.txt");  C. Path iP = Paths.toPath ("/First.txt");  D. Path iP = new Path ("/First.txt");

**Correct Answer: B**

### Question 61/70 - 1z0-809.v2019-06-24

---

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

**Correct Answer: C**

### Question 62/70 - 1z0-809.v2019-06-24

---

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.

**Correct Answer: A,B**

### Question 63/70 - 1z0-809.v2019-06-24

---

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

**Correct Answer: D**

Question 64/70 - 1z0-809.v2019-06-24

Given:

```
class Vehicle {
int vno;
String name;
public Vehicle (int vno, String name) {
this.vno = vno,;
this.name = name;
}
public String toString () {
return vno + ":" + name;
}
}
```

and this code fragment:

```
Set<Vehicle> vehicles = new TreeSet <> ();
vehicles.add(new Vehicle (10123, "Ford"));
vehicles.add(new Vehicle (10124, "BMW"));
System.out.println(vehicles);
```

What is the result?

- A. A compilation error occurs.
- B. 10123 Ford
- C. A ClassCastException is thrown at run time.
- D. 10124 BMW  
1 0123 Ford

**Correct Answer: C**

## Question 65/70 - 1z0-809.v2019-06-24

---

Given the code fragments:

```
public static Optional<String> getCountry(String loc) {  
    Optional<String> couName = Optional.empty();  
    if ("Paris".equals(loc))  
        couName = Optional.of("France");  
    else if ("Mumbai".equals(loc))  
        couName = Optional.of("India");  
    return couName;  
}
```

and

```
Optional<String> city1 = getCountry("Paris");  
Optional<String> city2 = getCountry("Las Vegas");  
System.out.println(city1.orElse("Not Found"));  
if (city2.isPresent())  
    city2.ifPresent(x -> System.out.println(x));  
else  
    System.out.println(city2.orElse("Not Found"));
```

What is the result?

- A. Optional[France]
- Not Found
- B. Optional [France]
- Optional [NotFound]
- C. France
- D. France
- Optional[NotFound]

**Correct Answer: C**

## Question 66/70 - 1z0-809.v2019-06-24

---

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 = stlIndex; i < lstIndex; i++) {
    sum += data [i];
}
System.out.println(sum);
} else {
    new Sum (data, stlIndex + THRESHOLD_SIZE, lstIndex).fork( );
    new Sum (data, stlIndex,
    Math.min (lstIndex, stlIndex + 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 55.
- B. The program prints several values whose sum exceeds 55.
- C. The program prints several values that total 55.
- D. A compilation error occurs at line n1.

**Correct Answer: D**

## Question 67/70 - 1z0-809.v2019-06-24

---

Given the code fragment:

```

class CallerThread implements Callable<String> {
    String str;
    public CallerThread(String s) {this.str=s;}
    public String call() throws Exception {
        return str.concat("Call");
    }
}

```

and

```

public static void main (String[] args) throws InterruptedException,
ExecutionException
{
    ExecutorService es = Executors.newFixedThreadPool(4); //line n1
    Future f1 = es.submit (newCallerThread("Call"));
    String str = f1.get().toString();
    System.out.println(str);
}

```

Which statement is true?

- A. An ExecutionException is thrown at run time.
- B. A compilation error occurs at line n1.
- C. The program prints Call Call and does not terminate.
- D. The program prints Call Call and terminates.

Correct Answer: **C**

### Question 68/70 - 1z0-809.v2019-06-24

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

Correct Answer: **C**

### Question 69/70 - 1z0-809.v2019-06-24

Given:

```
class Engine {  
    double fuelLevel;  
    Engine(int fuelLevel) { this.fuelLevel = fuelLevel; }  
    public void start() {  
        // line n1  
        System.out.println("Started");  
    }  
    public void stop() { System.out.println("Stopped"); }  
}
```

Your design requires that:

`fuelLevel` of `Engine` must be greater than zero when the `start()` method is invoked.

- A. The code must terminate if `fuelLevel` of `Engine` is less than or equal to zero.
- B. Which code fragment should be added at line n1 to express this invariant condition?
  - A. `assert fuelLevel < 0: System.exit(0);`
  - B. `assert fuelLevel > 0: "Impossible fuel";`
  - C. `assert (fuelLevel) : "Terminating...";`
  - D. `assert (fuelLevel > 0) : System.out.println ("Impossible fuel");`

**Correct Answer: A**

**70.**

Given:

```
public final class IceCream {  
    public void prepare() {}  
}  
public class Cake {  
    public final void bake(int min, int temp) {}  
    public void mix() {}  
}  
public class Shop {  
    private Cake c = new Cake();  
    private final double discount = 0.25;  
    public void makeReady () { c.bake(10, 120); }  
}  
public class Bread extends Cake {  
    public void bake(int minutes, int temperature) {}  
    public void addToppings() {}  
}
```

Which statement is true?

- A. A compilation error occurs in `Cake`.
- B. A compilation error occurs in `IceCream`.
- C. A compilation error occurs in `Shop`.
- D. A compilation error occurs in `Bread`.
- E. All classes compile successfully.

**Correct Answer: D**