

1z0-809.85q

Number: 1z0-809
Passing Score: 800
Time Limit: 120 min

1z0-809



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Java SE 8 Programmer II

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Exam A

QUESTION 1

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));
```

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

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`.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

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 (ArithmeticException | 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 | ArithmeticException | NumberFormatException e) {`
- C. Replace line 26 with:
`} catch (ArithmeticException | NumberFormatException e) {`
- D. Replace line 27 with:
`throw e;`

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

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]}

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

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

Section: (none)

Explanation

Explanation/Reference:

Reference: TreeMap inherits SortedMap and automatically sorts the element's key

QUESTION 6

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.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

Given the code fragment:

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

Assume that the `Pics` directory does NOT exist.
What is the result?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

Given the code fragment:

```

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

```

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

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

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. 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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

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.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

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.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13

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`

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

Given the code fragment:

```

Stream<Path> files = Files.walk(Paths.get(System.getProperty("user.home")));
    files.forEach (fName -> {                                     //line n1
        try {
            Path aPath = fName.toAbsolutePath();                //line n2
            System.out.println(fName + ":"
                + Files.readAttributes(aPath, Basic.File.Attributes.class).creationTime
            );
        } catch (IOException ex) {
            ex.printStackTrace();
        }
    });

```

What is the result?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

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?



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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

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();
    }
```

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```
}  
}
```

What is the result?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

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));`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

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.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

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:3.0, Beginning with Java:2.0]
- 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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

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()`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

Given the code fragments:

```
class Caller implements Callable<String>    {
    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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

Given:

```

public class Canvas implements Drawable {
    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.

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

Given the code fragment:

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

What is the result?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 26

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");

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

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.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

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? (Choose two.)

- 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");
    }
```

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

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

Which two statements enforce the singleton nature of the design? (Choose two.)

- 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.

Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 31

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.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 32

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
20
- C. A compilation error occurs.
- D. A `NumberFormatException` is thrown at run time.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

Given:

Item table

- ID, INTEGER: PK
- DESCRIP, 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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

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);`

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

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.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

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

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

Correct Answer: DE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

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 `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.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

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.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

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.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

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
    }
}
```

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.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 45

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);
```

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46

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);`

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47

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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 48

Given:

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

Which two class definitions compile? (Choose two.)

- A.

```
public abstract class Task implements Doable {
    public void doSomethingElse(String s) { }
}
```
- B.

```
public abstract class Work implements Doable {
    public abstract void doSomething(String s) { }
    public void doYourThing(Boolean b) { }
}
```
- C.

```
public class Job implements Doable {
```

```

    public void doSomething(Integer i)    {    }
}
D. public class Action implements Doable {
    public void doSomething(Integer i)    {    }
    public String doThis(Integer j)      {    }
}
E. public class Do implements Doable {
    public void doSomething(Integer i)    {    }
    public void doSomething(String s)     {    }
    public void doThat (String s)        {    }
}

```

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

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 + " "));`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

Given:

```
Book.java:
public class Book {
```



```

        private String read(String bname)    {   return "Read" + bname    }
    }
EBook.java:
public class EBook extends Book    {
    public String read (String url)    {   return "View" + url    }
}

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

```

What is the result?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 52

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 53

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 54

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55

Given:

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

and the code fragment:

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

```

        throw new UserException ();
    } else if (age >= 60) {
        throw new AgeOutOfLimitException ();
    } else {
        System.out.println("User is registered.");
    }
}
public static void main(String[ ] args) throws UserException {

    App t = new App ();
    t.doRegister("Mathew", 60);
}
}

```

What is the result?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 56

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

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.

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 58

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.



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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.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 59

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

Given the code fragment:

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

Which is the result?

- A. 3:00 - difference: 2

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60

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;
    }
}
```

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 61

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
Open-Close-
- B. Open-Close-Open-Close-

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 62

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"));`

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 63

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" ;`

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 64

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:

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 65

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 66

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");

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 67

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?

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 68

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 69

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]

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 70

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.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 71

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 72

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");

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 73

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.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 74

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;
}`

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 75

Given the code fragment:

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

What is the result?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 76

Given the code fragments :

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

and

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

What is the result?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 77

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]

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 78

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); // line 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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 79

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 80

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 ();`

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 81

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>
```

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 82

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);`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 83

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. GOODBYE_MSG
- C. Hello, everyone!
- D. Goodbye everyone!
- E. HELLO_MSG

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 84

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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 85

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.

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

Reference: <https://www.logicbig.com/tutorials/core-java-tutorial/java-multi-threading/fork-and-join.html>



<https://www.gratisexam.com/>

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