

**1z0-809.exam.50q**

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



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

**1z0-809**

**Java SE 8 Programmer II**

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

## Exam A

### QUESTION 1

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");`

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### QUESTION 2

Given the code fragment:

```
Stream<List<String>> iStr= Stream.of (
    Arrays.asList ("1", "John"),
    Arrays.asList ("2", null)0;
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.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 3

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 4

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 5

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 6

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 7

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 8

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 Programing");
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));`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 9

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`.



**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 10

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 11

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 12**

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 13

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 14

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 15

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 16

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 17

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: A**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

### QUESTION 18

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?



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

- 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.

**Correct Answer:** BC

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 19

Given:

```
class ImageScanner implements AutoCloseable {
    public void close () throws Exception {
        System.out.print ("Scanner closed.");
    }
    public void scanImage () throws Exception {
        System.out.print ("Scan.");
        throw new Exception("Unable to scan.");
    }
}
class ImagePrinter implements AutoCloseable {
    public void close () throws Exception {
        System.out.print ("Printer closed.");
    }
    public void printImage () {System.out.print("Print.");    }
}
```

and this code fragment:

```
try (ImageScanner ir = new ImageScanner();
    ImagePrinter iw = new ImagePrinter()) {
    ir.scanImage();
    iw.printImage();
} catch (Exception e) {
    System.out.print(e.getMessage());
}
```

What is the result?

- A. Scan.Printer 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.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**



**QUESTION 20**

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.

**Correct Answer: C**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 21**

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> addr1 = Optional.ofNullable (address);
Employee e1 = new Employee (addr1);
String eAddress = (addr1.isPresent()) ? addr1.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.

**Correct Answer: B**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

**QUESTION 22**

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 23**

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 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. [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 25

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 26

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 27

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.



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

**Correct Answer: E**

**Section: (none)**

**Explanation**

**Explanation/Reference:**

#### **QUESTION 28**

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 29

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 30

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 31

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.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 32

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.

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Explanation:

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

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

### QUESTION 33

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()`

**Correct Answer:** A

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 34

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.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

### QUESTION 35

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.

**Correct Answer:** AE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

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

### QUESTION 36

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 37

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?



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

- 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 38

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 39

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 40

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 41

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 42

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");`

**Correct Answer:** DE

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 43

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.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 44

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.

**Correct Answer:** C

**Section:** (none)

**Explanation**

**Explanation/Reference:**

Reference: <http://tutorials.jenkov.com/java-date-time/duration.html#accessing-the-time-of-a-duration>

#### QUESTION 45

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.

**Correct Answer:** D

**Section:** (none)

**Explanation**

**Explanation/Reference:**

#### QUESTION 46

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 47

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 48

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 49

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 50

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:**



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