

1z0-809.exam.50q

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1z0-809

Java SE 8 Programmer II

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?



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- 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));
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?



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- 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?



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- A. Nest the USCurrency enumeration declaration within the Coin class.
- B. Make the USCurrency enumeration constructor private.

Explanation

Explanation/Reference:

QUESTION 19

- 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)

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.

Explanation

Explanation/Reference:

QUESTION 21

D. A `NullPointerException` is thrown as runtime.

Correct Answer: C

Section: (none)

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:



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.



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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?



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- 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:



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