

1z0-809.oracle

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



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Exam A

QUESTION 1

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);
```



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- 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: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

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: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

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: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

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: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

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: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

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: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

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?



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- 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: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

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: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

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: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

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: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

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: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 12

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 13

Given:

```
public enum USCurrency    {
    PENNY (1),
    NICKLE (5),
    DIME (10),
    QUARTER (25);

    private int value;

    public USCurrency(int value)    {
        this.value = value;
    }
    public int getValue()    {return value;}
}
public class Coin {
    public static void main (String[] args)    {
        USCurrency usCoin =new USCurrency.DIME;
        System.out.println(usCoin.getValue() ) :
    }
}
```

Which two modifications enable the given code to compile?

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

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 14

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: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 15

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: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

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> addrsl = Optional.ofNullable (address);
Employee e1 = new Employee (addrsl);
String eAddress = (addrsl.isPresent()) ? addrsl.get().getCity() : "City Not
available";
```

What is the result?



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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

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 18

Given:

```
class Vehicle    {
    int vno;
    String name;

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

and this code fragment:

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

What is the result?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

Given that course.txt is accessible and contains:

Course : : Java

and given the code fragment:

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

What is the result?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

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 type1 = 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: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

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: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

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: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

Given the code fragments:

```

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

```

```

    }
    public String toString() {
        return name + ":" + price;
    }
}

```

and

```

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

```

What is the result?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 24

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: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 25

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 26

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?



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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: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 27

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: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

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: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 29

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 30

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: C

Section: (none)

Explanation

Explanation/Reference:

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

QUESTION 31

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 32

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: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

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 34

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 35

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 36

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: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

Given:

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

Which two modifications enable the code to print Open Close?

- A. Replace line n1 with:
`class Folder implements AutoCloseable {`
- B. Replace line n1 with:
`class Folder extends Closeable {`
- C. Replace line n1 with:
`class Folder extends Exception {`
- D. At line n2, insert:
`final void close () {`
`System.out.print("Close");`
`}`
- E. At line n2, insert:
`public void close () throws IOException {`
`System.out.print("Close");`
`}`

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

You want to create a singleton class by using the Singleton design pattern.
Which two statements enforce the singleton nature of the design?

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

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

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: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

Given the code fragment:

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


What is the result?

- A. 20.0
30.0
- B. 10
- C. A compilation error occurs.
- D. A `NumberFormatException` is thrown at run time.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

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: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

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: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

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: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

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 45

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 46

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: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47

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: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 48

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 49

Given:

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

and the code fragment:

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

```
}
```

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

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

Given the definition of the `Emp` class:

```
public class Emp
{
    private String eName;
    private Integer eAge;

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

and code fragment:

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

What is the result?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

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

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

Correct Answer: CDE

Section: (none)

Explanation

Explanation/Reference:

Explanation: Database vendors support JDBC through the JDBC driver interface or through the ODBC connection. Each driver must provide implementations of `java.sql.Connection`, `java.sql.Statement`, `java.sql.PreparedStatement`, `java.sql.CallableStatement`, and `java.sql.ResultSet`. They must also implement the `java.sql.Driver` interface for use by the generic `java.sql.DriverManager` interface.

QUESTION 52

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: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 53

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 (newCallableThread("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 54

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: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55

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: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 56

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: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

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 58

Given:

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

Which two class definitions compile?

- A. `public abstract class Task implements Doable {`



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```

    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: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 59

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: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60

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: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 61

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: D

Section: (none)

Explanation

Explanation/Reference:



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