

1z0-809.exam.52q

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



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Java SE 8 Programmer II

Exam A

QUESTION 1

Given:

```
class Bird {  
    public void fly () { System.out.print("Can fly"); }  
}  
class Penguin extends Bird {  
    public void fly () { System.out.print("Cannot fly"); }  
}
```

and the code fragment:

```
class Birdie {  
    public static void main (String [ ] args) {  
        fly( ( ) -> new Bird ( ));          fly  
        (Penguin : : new);  
    }  
    /* line n1 */  
}
```

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



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- A. `static void fly (Consumer<Bird> bird) {
 :: fly ();
}`
- B. `static void fly (Consumer<? extends Bird> bird) {
 bird.accept() fly ();
}`
- C. `static void fly (Supplier<Bird> bird) {
 bird.get() fly ();
}`
- D. `static void fly (Supplier<? extends Bird> bird) {
 LOST`

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

Given:

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

Which two modifications enable the code to compile?

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

Correct Answer: DF

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

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 4

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 5

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 6

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 7

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 8

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 9

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 10

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 11

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 12

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 13

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 14

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 15

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: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 16

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 17

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 {  
(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 18

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?



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- 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 19

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: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 20

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: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

Given:

```
public class Test<T>    {
private T t;    public T get
() {    return t;    }
public void set (T t)    {
this.t = t;    }
    public static void main (String args [ ] )    {
Test<String> type = new Test<>();    Test type 1 =
new Test ();    //line n1
type.set("Java");
    type1.set(100);    //line n2
System.out.print(type.get() + " " + type1.get());
    }
}
```

What is the result?

- A. `Java 100`
- B. `java.lang.string@<hashcode>java.lang.Integer@<hashcode>`
- C. A compilation error occurs. To rectify it, replace line `n1` with: `Test<Integer> type1 = new Test<>();`

D. A compilation error occurs. To rectify it, replace line n2 with: `type1.set
(Integer(100));`

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 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 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 24**

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 25

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 26

Given the code fragment:

```
List<String> empDetails = Arrays.asList("100, Robin, HR",  
                                       "200, Mary, AdminServices",  
                                       "101, Peter, HR"); empDetails.stream()  
s.contains("1")          .filter(s->  
    .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 27

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 28

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 29

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 30

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 31

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 32

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: AE

Section: (none)

Explanation

Explanation/Reference:

QUESTION 33

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.



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- E. Implement the `Serializable` interface.



Correct Answer: BD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

Given the code fragment:

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

```
17.      }
18.      } catch (Exception e) {
19.      System.out.println ("Error");
20.      }
```

Assume that:

The required database driver is configured in the classpath.

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

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

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

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:



QUESTION 35

Given:

```
public class Customer    {
private String fName;
private String lName;
private static int count;
    public customer (String first, String last) {fName = first, lName = last;
    ++count;}    static {
count = 0;    }
    public static int getCount()    {return count; }
}
public class App    {
    public static void main (String [] args)    {
Customer c1 = new Customer("Larry", "Smith");
```

```
Customer c2 = new Customer("Pedro", "Gonzales");
Customer c3 = new Customer("Penny", "Jones");
Customer c4 = new Customer("Lars", "Svenson");
c4 = null;          c3 = c2;
System.out.println (Customer.getCount());
}
}
```

What is the result?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:



QUESTION 36

Given:

Item table

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

And given the code fragment:

```
9.      try {
10.         Connection conn = DriverManager.getConnection(dbURL, username, password);
11.         String query = "Select * FROM Item WHERE ID = 110";
12.         Statement stmt = conn.createStatement();
```

```
13.      ResultSet rs = stmt.executeQuery(query);
14.      while(rs.next()) {
15.          System.out.println("ID:      " + rs.getInt("Id"));
16.          System.out.println("Description:  " + rs.getString("Descrip"));
17.          System.out.println("Price:      " + rs.getDouble("Price"));
18.          System.out.println("Quantity:    " + rs.getInt("Quantity"));
19.      }
20.      } catch (SQLException se) {
21.          System.out.println("Error");
22.      }
```

Assume that:

The required database driver is configured in the classpath.

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

The SQL query is valid.

What is the result?

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



Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 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?

- 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:

```
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 39

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 40

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 41

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: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

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

- A. Time

- B. Date
- C. Statement
- D. ResultSet



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- 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 43

Given the code fragment:

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

What is the result?



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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

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 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

You have been asked to create a ResourceBundle which uses a properties file to localize an application. Which code example specifies valid keys of menu1 and menu2 with values of File Menu and View Menu?

- A. `<key name = 'menu1">File Menu</key>`
`<key name = 'menu2">View Menu</key>`
- B. `<key>menu1</key><value>File Menu</value>`
`<key>menu2</key><value>View Menu</value>`
- C. `menu1, File Menu, menu2, View Menu` **Menu D.** `menu1 = File Menu menu2 = View Menu`

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 47

Given the records from the Employee table:

eid	ename
111	Tom
112	Jerry
113	Donald

and given the code fragment:

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

Assume that:

The required database driver is configured in the classpath.

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

What is the result?

A. The Employee table is updated with the row:

112 Jack

and the program prints:

112 Jerry

B. The Employee table is updated with the row:

112 Jack

and the program prints:

112 Jack

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

112 Jerry

D. The program prints Exception is raised.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 48

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");
    }
}
```

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    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 49

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 50

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 51

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 52

Given:

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

Which two class definitions compile?

- A.

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

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

```
public class Job implements Doable { public  
void doSomething(Integer i)    { }  
}
```
- D.

```
public class Action implements Doable {  
public void doSomething(Integer i)    { }  
public String doThis(Integer j)    { }  
}
```
- E.

```
public class Do implements Doable { public  
void doSomething(Integer i)    { } public  
void doSomething(String s)    { } public  
void doThat (String s)    { }  
}
```

Correct Answer: AE

Section: (none)

Explanation

Explanation/Reference:



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