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## Java SE 8 Programmer II

Oracle 1z0-809

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**QUESTION NO: 1**

Given the code fragment:

```
Connection con = null;
try {
    // line n1
    if(con != null){
        System.out.print("Connection Established.");
    }
} catch (Exception e) {
    System.out.print(e);
}
```

Assume that dbURL, userName, and password are valid.

Which code fragment can be inserted at line n1 to enable the code to print Connection Established?

- A.** Properties prop = new Properties(); prop.put ("user", userName); prop.put ("password", password); con = DriverManager.getConnection (dbURL, prop);
- B.** con = DriverManager.getConnection (userName, password, dbURL);
- C.** Properties prop = new Properties(); prop.put ("userid", userName); prop.put ("password", password); prop.put("url", dbURL); con = DriverManager.getConnection (prop);
- D.** con = DriverManager.getConnection (dbURL); con.setClientInfo ("user", userName); con.setClientInfo ("password", password);

**ANSWER: A****QUESTION NO: 2**

Given the code fragments:

```
public class Book implements Comparator { 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
```

```
Listbooks = 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:2.0, A Guide to Java Tour:3.0]
- C. A compilation error occurs because the Book class does not override the abstract method compareTo().
- D. An Exception is thrown at run time.

**ANSWER: D**

**Explanation:**

If asList is changed to List, the output would be B, Beginning with java:2.0, A guide to Java Tour:3.0.

### QUESTION NO: 3

Given the code fragment:

```
//line n1
Double d = str.average().getAsDouble();
System.out.println("Average = " + d);
```

Which should be inserted into line n1 to print Average = 2.5?

- A. IntStream str = Stream.of (1, 2, 3, 4);
- B. IntStream str = IntStream.of (1, 2, 3, 4);
- C. DoubleStream str = Stream.of (1.0, 2.0, 3.0, 4.0);
- D. Stream str = Stream.of (1, 2, 3, 4);

**ANSWER: C**

### QUESTION NO: 4

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? (Choose two.)

- A. Nest the USCurrency enumeration declaration within the Coin class.
- B. Make the USCurrency enumeration constructor public.
- C. Remove the new keyword from the instantiation of usCoin.
- D. Make the getValue() method public.
- E. Add the final keyword in the declaration of value.

**ANSWER: B C**

#### QUESTION NO: 5

For which three objects must a vendor provide implementations in its JDBC driver? (Choose three.)

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

## G. DriverManager

**ANSWER: C D E****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 NO: 6**

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.

**ANSWER: C****Explanation:**

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

**QUESTION NO: 7**

Given the code fragment:

```
List<Integer> prices = Arrays.asList(3, 4, 5);
prices.stream()
    .filter(e -> e > 4)
    .peek(e -> System.out.print("Price " + e))           // line n1
    .map(n -> n - 1)                                     // line n2
    .peek(n -> System.out.println(" New Price " + n));   // line n3
```

Which modification enables the code to print Price 5 New Price 4?

- A. Replace line n2 with `.map (n -> System.out.println ("New Price" + n -1))` and remove line n3
- B. Replace line n2 with `.mapToInt (n -> n - 1);`
- C. Replace line n1 with `.forEach (e -> System.out.print ("Price" + e))`

D. Replace line n3 with `.forEach (n -> System.out.println ("New Price" + n));`

**ANSWER: D**

#### QUESTION NO: 8

Which two are elements of a singleton class? (Choose two.)

- A. a transient reference to point to the single instance
- B. a public method to instantiate the single instance
- C. a public static method to return a copy of the singleton reference
- D. a private constructor to the class
- E. a public reference to point to the single instance

**ANSWER: B D**

#### QUESTION NO: 9

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. 3::MyPic.jpeg
- D. 2:Pics: MyPic.jpeg

**ANSWER: B**

#### QUESTION NO: 10

Given:

```
interface P { public void method1(); }  
interface Q extends P { public void method1(); }  
interface R extends P { public void method2(); }  
interface S { public default void method() { } }  
interface T { public void method1(); public void method2(); }  
interface U { public void method1(); public abstract void method2(); }
```

Which two interfaces can you use to create lambda expressions? (Choose two.)

- A. T
- B. R
- C. P
- D. S
- E. Q
- F. U

**ANSWER: C D**

#### QUESTION NO: 11

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. File Menu  
View Menu
- B. menu1File Menu  
menu2View Menu
- C. menu1, File Menu, menu2, View Menu Menu
- D. menu1 = File Menu menu2 = View Menu

**ANSWER: D**

**QUESTION NO: 12**

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:

```
Listli = Arrays.asList(new Emp("Sam", 20), New Emp("John", 60), New Emp("Jim", 51));
```

```
Predicate agVal = s -> s.getEAge() > 50; //line n1 li = li.stream().filter(agVal).collect(Collectors.toList()); Stream 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.

**ANSWER: B****QUESTION NO: 13**

Which two methods from the java.util.stream.Stream interface perform a reduction operation? (Choose two.)

- A. count ()
- B. collect ()
- C. distinct ()
- D. peek ()
- E. filter ()

**ANSWER: A B**

**Explanation:**

Reference: <https://docs.oracle.com/javase/8/docs/api/java/util/stream/package-summary.html>



**QUESTION NO: 14**

Given the code fragments:

```
class Person // line n1
{
    String name;
    Person(String name) {
        this.name = name;
    }
    // line n2
}
```

and

```
List<Person> emps = new ArrayList<>();
/* code that adds objects of the Person class to the emps list goes here */
Collections.sort(emps);
```

Which two modifications enable to sort the elements of the emps list? (Choose two.)

- A. Replace line n1 with class Person extends Comparator
- B. At line n2 insert public int compareTo (Person p) { return this.name.compareTo (p.name); }
- C. Replace line n1 with class Person implements Comparable
- D. At line n2 insert public int compare (Person p1, Person p2) { return p1.name.compareTo (p2.name); }
- E. At line n2 insert:  
public int compareTo (Person p, Person p2) { return p1.name.compareTo (p2.name); }
- F. Replace line n1 with class Person implements Comparator

**ANSWER: B C**

**QUESTION NO: 15**

Given the code fragment:

```
public static void main(String[] args) {  
    Stream.of("Java", "Unix", "Linux")  
        .filter(s -> s.contains("n"))  
        .peek(s -> System.out.println("PEEK: " + s))  
        // line n1  
}
```

Which two code fragments, when inserted at line n1 independently, result in the output PEEK: Unix?

- A. `.anyMatch ();`
- B. `.allMatch ();`
- C. `.findAny ();`
- D. `.noneMatch ();`
- E. `.findFirst ();`

**ANSWER: C E**