

Exam Questions 1Z0-809

Java SE 8 Programmer II

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NEW QUESTION 1

Given the code fragment:

```
public static void main (String[] args) throws IOException { BufferedReader brCopy = null;
try (BufferedReader br = new BufferedReader (new FileReader("employee.txt")))
{ // line n1
br.lines().forEach(c -> System.out.println(c)); brCopy = br; //line n2
}
brCopy.ready(); //line n3;
}
```

Assume that the ready method of the BufferedReader, when called on a closed BufferedReader, throws an exception, and employee.txt is accessible and contains valid text.

What is the result?

- A. A compilation error occurs at line n3.
- B. A compilation error occurs at line n1.
- C. A compilation error occurs at line n2.
- D. The code prints the content of the employee.txt file and throws an exception at line n3.

Answer: D

NEW QUESTION 2

What is the result?

```
7. BiPredicate<String, String> bp = (String s1, String s2) -> s1.contains("SG") &&
   s2.contains("Java");
8. BiFunction<String, String, Integer> bf = (String s1, String s2) -> {
9.     int fee = 0;
10.    if (bp.test(s1, s2)) {
11.        fee = 100;
12.    }
13.    return fee;
14. };
15. int fee1 = bf.apply("D101SG", "Java Programming");
16. System.out.println(fee1);
```

- A. A compilation error occurs at line 7.
- B. 100
- C. A compilation error occurs at line 8.
- D. A compilation error occurs at line 15.

Answer: A

NEW QUESTION 3

Given the code fragment:

```
5. IntConsumer consumer = e -> System.out.println(e);
6. Integer value = 90;
7. /* insert code fragment here */
8. consumer.accept(result);
```

Which code fragment, when inserted at line 7, enables printing 100?

- A. Function<Integer> funRef = e -> e + 10; Integer result = funRef.apply(value);
- B. IntFunction funRef = e -> e + 10; Integer result = funRef.apply (10);
- C. ToIntFunction<Integer> funRef = e -> e + 10;int result = funRef.applyAsInt (value);
- D. ToIntFunction funRef = e -> e + 10; int result = funRef.apply (value);

Answer: A

NEW QUESTION 4

Given the code fragment:

```
for (Course a : Course.values()) {
    System.out.print(a + " Fees " + a.getCost()+" " );
}
```

Which is the valid definition of the Course enum?

```

A. enum Course { JAVA(100), J2ME(150);
    private int cost;
    public Course(int c) {
        this.cost = c;
    }
    int getCost() {
        return cost;
    }
}

B. enum Course { JAVA(100), J2ME(150);
    private static int cost;
    private Course(int c) {
        this.cost = c;
    }
    static int getCost() {
        return cost;
    }
}

C. final enum Course { JAVA(100), J2ME(150);
    private int cost;
    public Course(int c) {
        this.cost = c;
    }
    int getCost() {
        return cost;
    }
    void setCost(int c) {
        this.cost = c;
    }
}

D. enum Course { JAVA(100), J2ME(150);
    private int cost;
    Course(int c) {
        this.cost = c;
    }
    int getCost() {
        return cost;
    }
}

```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: A

NEW QUESTION 5

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.

Answer: A

NEW QUESTION 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

NEW QUESTION 7

Given:

```
class Resource implements AutoCloseable {  
    public void close() throws Exception {  
        System.out.print("Close-");  
    }  
    public void open() {  
        System.out.print("Open-");  
    }  
}
```

and this code fragment:

```
Resource res1 = new Resource();  
try {  
    res1.open();  
    res1.close();  
} catch (Exception e) {  
    System.out.println("Exception - 1");  
}  
try (res1 = new Resource()) { // line n1  
    res1.open();  
} catch (Exception e) {  
    System.out.println("Exception - 2");  
}
```

What is the result?

- A. Open-Close- Exception - 1 Open-Close-
- B. Open-Close-Open-Close-
- C. A compilation error occurs at line n1.
- D. Open-Close-Open-

Answer: C

NEW QUESTION 8

Given the code fragment:


```
List<String> words = Arrays.asList("win", "try", "best", "luck", "do");
Predicate<String> test1 = w -> {
    System.out.println("Checking...");
    return w.equals("do"); // line n1
};
Predicate test2 = (String w) -> w.length() > 3; // line n2
words.stream()
    .filter(test2)
    .filter(test1)
    .count();
```

What is the result?

- A. A compilation error occurs at line n1.
- B. Checking...
- C. Checking... Checking...
- D. A compilation error occurs at line n2.

Answer: A

NEW QUESTION 9

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.

Answer: A

NEW QUESTION 10

Given the code fragment:

```
List<Integer> values = Arrays.asList(1, 2, 3);
values.stream()
    .map(n -> n*2) //line n1
    .peek(System.out::print) //line n2
    .count();
```

What is the result?

- A. 246
- B. The code produces no output.
- C. A compilation error occurs at line n1.
- D. A compilation error occurs at line n2.

Answer: A

NEW QUESTION 10

Given the code fragment:

```
ProductCode<Number, Integer> c1 = new ProductCode<Number, Integer>(); /* c1
instantiation */
ProductCode<Number, String> c2 = new ProductCode<Number, String>(); /* c2
instantiation */
```

You have been asked to define the ProductCode class. The definition of the ProductCode class must allow c1 instantiation to succeed and cause a compilation error on c2 instantiation.

Which definition of ProductCode meets the requirement?

```
A. class ProductCode<T, S<Integer>> {
    T c1;
    S c2;
}

B. class ProductCode<T, S extends T> {
    T c1;
    S c2;
}

C. class ProductCode<T, S> {
    T c1;
    S c2;
}

D. class ProductCode<T, S super T> {
    T c1;
    S c2;
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: B

NEW QUESTION 15

Given:

```
public class Job {
    String name;
    Integer cost;
    Job(String name, Integer cost) {
        this.name = name;
        this.cost = cost;
    }
    String getName() { return name; }
    int getCost() { return cost; }
    public static void main(String[] args) {
        Job j1 = new Job("IT", null);
        DoubleSupplier js1 = j1::getCost;
        System.out.println(j1.getName() + ":" + js1.getAsDouble());
    }
}
```

What is the result?

- A. IT:null
- B. A NullPointerException is thrown at run time.
- C. A compilation error occurs.
- D. IT:0.0

Answer: D

NEW QUESTION 20

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

Answer: B

NEW QUESTION 23

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));`

Answer: D

NEW QUESTION 26

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.

Answer: D

NEW QUESTION 31

Given the code fragment:

```
List<String> cs = Arrays.asList("Java", "Java EE", "Java ME");  
// line n1  
System.out.print(b);
```

Which code fragment, when inserted at line n1, ensures false is printed?

- A. `boolean b = cs.stream() .findAny() .get() .equals("Java");`
- B. `boolean b = cs.stream() .anyMatch (w -> w.equals ("Java"));`
- C. `boolean b = cs.stream() .findFirst() .get() .equals("Java");`
- D. `boolean b = cs.stream() .allMatch(w -> w.equals("Java"));`

Answer: C

NEW QUESTION 33

Given the code fragment:

```
List<String> valList = Arrays.asList("", "George", "", "John", "Jim");  
Long newVal = valList.stream() // line n1  
    .filter(x -> !x.isEmpty())  
    .count(); // line n2  
System.out.print(newVal);
```

What is the result?

- A. A compilation error occurs at line n2.
- B. 3
- C. 2
- D. A compilation error occurs at line n1.

Answer: A

NEW QUESTION 34

Given the content:

```
MessagesBundle.properties file:

inquiry = How are you?

MessagesBundle_de_DE.properties file:

inquiry = Wie geht's?
```

and given the code fragment:

```
Locale currentLocale;
// line 1
ResourceBundle messages = ResourceBundle.getBundle("MessagesBundle", currentLocale);
System.out.println(messages.getString("inquiry"));
```

Which two code fragments, when inserted at line 1 independently, enable the code to print "Wie geht's?"

- A. currentLocale = new Locale ("de", "DE");
- B. currentLocale = new Locale.Builder ().setLanguage ("de").setRegion ("DE").build ();
- C. currentLocale = Locale.GERMAN;
- D. currentLocale = new Locale (); currentLocale.setLanguage ("de"); currentLocale.setRegion ("DE");
- E. currentLocale = Locale.getInstance(Locale.GERMAN,Locale.GERMANY);

Answer: B**NEW QUESTION 38**

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<Object, Object> percentage = new Foo<String, Integer>("Steve", 100);
- D. Foo<String, String> grade = new Foo <> ("John", "A");

Answer: A**NEW QUESTION 40**

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: E

NEW QUESTION 44

Given:

```
IntStream stream = IntStream.of (1,2,3); IntFunction<Integer> inFu= x -> y -> x*y; //line n1
IntStream newStream = stream.map(inFu.apply(10)); //line n2 newStream.forEach(System.out::print);
Which modification enables the code fragment to compile?
```

- A. Replace line n1 with: IntFunction<UnaryOperator> inFu = x -> y -> x*y;
- B. Replace line n1 with: IntFunction<IntUnaryOperator> inFu = x -> y -> x*y;
- C. Replace line n1 with: BiFunction<IntUnaryOperator> inFu = x -> y -> x*y;
- D. Replace line n2 with: IntStream newStream = stream.map(inFu.applyAsInt (10));

Answer: B

NEW QUESTION 48

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. 2
- B. 3
- C. 4
- D. 5

Answer: D

NEW QUESTION 51

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

Answer: C

NEW QUESTION 55

What is true about the java.sql.Statement interface?

- A. It provides a session with the database.
- B. It is used to get an instance of a Connection object by using JDBC drivers.
- C. It provides a cursor to fetch the resulting data.
- D. It provides a class for executing SQL statements and returning the results.

Answer: D

NEW QUESTION 59

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? (Choose two.)

- 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 () {

Answer: DF

NEW QUESTION 60

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.

Answer: B

NEW QUESTION 65

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

NEW QUESTION 67

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!Testfollowed 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.

Answer: C

NEW QUESTION 71

Given the structure of the Student table: Student (id INTEGER, name VARCHAR) Given the records from the STUDENT table:

ID	NAME
102	Edwin
103	Edward
103	Edwin

Given the code fragment:

```
Connection conn = DriverManager.getConnection(dbURL, userName, passWord);
Statement st = conn.createStatement();
String query = "DELETE FROM Student WHERE id = 103";
System.out.println("Status: " + st.execute(query));
```

Assume that:

The required database driver is configured in the classpath.

The appropriate database is accessible with the dbURL, userName, and passWord exists. What is the result?

- A. The program prints Status: true and two records are deleted from the Student table.
- B. The program prints Status: false and two records are deleted from the Student table.
- C. A SQLException is thrown at runtime.
- D. The program prints Status: false but the records from the Student table are not deleted.

Answer: B

NEW QUESTION 73

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.

Answer: A

NEW QUESTION 76

Locale	Currency Symbol	Currency Code
US	\$	USD

and the code fragment?

```
double d = 15;
Locale l = new Locale("en", "US");
NumberFormat formatter = NumberFormat.getCurrencyInstance(l);
System.out.println(formatter.format(d));
```

What is the result?

- A. \$15.00
- B. 15 \$
- C. USD 15.00
- D. USD \$15

Answer: A

NEW QUESTION 79

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

- 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.

Answer: BD

NEW QUESTION 84

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)  
.f ilter(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.

Answer: B

NEW QUESTION 89

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.

Answer: D

NEW QUESTION 91

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.

Answer: C

NEW QUESTION 96

Given the code fragments:

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



```
}  
and  
List<Book>books = Arrays.asList (new Book ("Beginning with Java", 2), new book ("A  
Guide to Java Tour", 3));  
Collections.sort(books, new Book()); System.out.print(books);  
What is the result?
```

- A. [A Guide to Java Tour:3.0, Beginning with Java:2.0]
- B. [Beginning with Java:2, A Guide to Java Tour:3]
- C. A compilation error occurs because the Book class does not override the abstract method compareTo().
- D. An Exception is thrown at run time.

Answer: A

NEW QUESTION 99

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.

Answer: A

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).

NEW QUESTION 103

Given:

```
public class Vehicle {  
    int vId;  
    String vName;  
    public Vehicle(int vIdArg, String vNameArg) {  
        this.vId = vIdArg;  
        this.vName = vNameArg;  
    }  
    public int getVId() { return vId; }  
    public String getVName() { return vName; }  
    public String toString() {  
        return vName;  
    }  
}
```

and the code fragment:

```
List<Vehicle> vehicle = Arrays.asList(  
    new Vehicle(2, "Car"),  
    new Vehicle(3, "Bike"),  
    new Vehicle(1, "Truck"));  
vehicle.stream()  
    // line n1  
    .forEach(System.out::print);
```

Which two code fragments, when inserted at line n1 independently, enable the code to print TruckCarBike?

- A. .sorted ((v1, v2) -> v1.getVId() < v2.getVId())
- B. .sorted (Comparable.comparing (Vehicle::getVName)).reversed ()
- C. .map (v -> v.getVId()).sorted ()
- D. .sorted((v1, v2) -> Integer.compare(v1.getVId(), v2.getVId()))
- E. .sorted(Comparator.comparing ((Vehicle v) -> v.getVId()))

Answer: B

NEW QUESTION 104

Given the code fragment:

```
final String str1 = "Java";
StringBuffer strBuf = new StringBuffer("Course");
UnaryOperator<String> u = (str2) -> str1.concat(str2); // line n1
UnaryOperator<String> c = (str3) -> str3.toLowerCase();
System.out.println(u.apply(c.apply(strBuf))); // line n2
```

What is the result?

- A. A compilation error occurs at line n1.
- B. courseJava
- C. Javacourse
- D. A compilation error occurs at line n2.

Answer: A

NEW QUESTION 106

Given:

```
class Counter extends Thread {
    int i = 10;
    public synchronized void display(Counter obj) {
        try {
            Thread.sleep(5);
            obj.increment(this);
            System.out.println(i);
        } catch (InterruptedException ex) { }
    }
    public synchronized void increment (Counter obj) {
        i++;
    }
}

public class Test {
    public static void main(String[] args) {
        final Counter obj1 = new Counter();
        final Counter obj2 = new Counter();
        new Thread(new Runnable() {
            public void run() {obj1.display(obj2);
        }
    }).start();
        new Thread(new Runnable() {
            public void run() { obj2.display(obj1); }
        }).start();
    }
}
```

From what threading problem does the program suffer?

- A. race condition
- B. deadlock
- C. starvation
- D. livelock

Answer: B

NEW QUESTION 109

In 2015, daylight saving time in New York, USA, begins on March 8th at 2:00 AM. As a result, 2:00 AM becomes 3:00 AM.

Given the code fragment:

```
ZoneId zone = ZoneId.of("America/New_York");
ZonedDateTime dt = ZonedDateTime.of(LocalDate.of(2015, 3, 8), LocalTime.of(1, 0),
zone);
ZonedDateTime dt2 = dt.plusHours(2);
System.out.print(DateTimeFormatter.ofPattern("H:mm - ").format(dt2));
System.out.println("difference: " + ChronoUnit.HOURS.between(dt, dt2));
```

Which is the result?

- A. 3:00 – difference: 2
- B. 2:00 – difference: 1
- C. 4:00 – difference: 3
- D. 4:00 – difference: 2

Answer: B

NEW QUESTION 114

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.

Answer: A

NEW QUESTION 115

Given that data.txt and alldata.txt are accessible, and the code fragment:

```
public void writeFiles() throws IOException {
    BufferedReader br = new BufferedReader(new FileReader("data.txt"));
    BufferedWriter bw = new BufferedWriter(new FileWriter("alldata.txt"));
    String line = null;
    while ((line = br.readLine()) != null) {
        bw.append(line + "\n");
    }
    // line n1
}
```

What is required at line n1 to enable the code to overwrite alldata.txt with data.txt?

- A. br.close();
- B. bw.writeLn();
- C. br.flush();
- D. bw.flush();

Answer: D

NEW QUESTION 120

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. 1
- B. A compilation error occurs at line n1.
- C. A compilation error occurs at line n2.

Answer: A

NEW QUESTION 123

Given:


```
interface Interfacel {
    public default void sayHi() {
        System.out.println("Hi Interface-1");
    }
}

interface Interface2 {
    public default void sayHi() {
        System.out.println("Hi Interface-2");
    }
}

public class MyClass implements Interfacel, Interface2 {
    public static void main(String[] args) {
        Interfacel obj = new MyClass();
        obj.sayHi();
    }
    public void sayHi() {
        System.out.println("Hi MyClass");
    }
}
```

What is the result?

- A. Hi Interface-2
- B. A compilation error occurs.
- C. Hi Interface-1
- D. Hi MyClass

Answer: D

NEW QUESTION 124

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;
    }
    public String getCourse() { return course; }
    public String getName() { return name; }
    public String getCity() { return 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 EEJava ME
- C. [Java ME: Jessy:Chicago, Java ME: Mark:Chicago] [Java EE: Helen:Houston]

D. A compilation error occurs.

Answer: D

NEW QUESTION 126

Given:

```
public interface LengthValidator {  
    public boolean checkLength(String str);  
}
```

and

```
public class Txt {  
    public static void main(String[] args) {  
        boolean res = new LengthValidator() {  
            public boolean checkLength(String str) {  
                return str.length() > 5 && str.length() < 10;  
            }  
        }.checkLength("Hello");  
    }  
}
```

Which interface from the java.util.function package should you use to refactor the class Txt?

- A. Consumer
- B. Predicate
- C. Supplier
- D. Function

Answer: C

NEW QUESTION 131

Given:

```
public class Canvas implements Drawable { public void draw () { }  
}  
public abstract class Board extends Canvas { }  
public class Paper extends Canvas { protected void draw (int color) { }  
}  
public class Frame extends Canvas implements Drawable { public void resize () { }  
}  
public interface Drawable { public abstract void draw ();  
}
```

Which statement is true?

- A. Board does not compile.
- B. Paper does not compile.
- C. Frame does not compile.
- D. Drawable does not compile.
- E. All classes compile successfully.

Answer: E

NEW QUESTION 132

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.

Answer: D

NEW QUESTION 136

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.

Answer: A

NEW QUESTION 138

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. 20.030.0
- B. 1020
- C. A compilation error occurs.
- D. A NumberFormatException is thrown at run time.

Answer: C

NEW QUESTION 139

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");

Answer: C

NEW QUESTION 144

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()

Answer: A

NEW QUESTION 148

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]}

Answer: B

NEW QUESTION 153

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

NEW QUESTION 156

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.

Answer: B

NEW QUESTION 158

Given the code fragment:

```
public static void main(String[] args) {
    Console console = System.console();
    char[] pass = console.readPassword("Enter password:"); // line n1
    String password = new String(pass); // line n2
}
```

What is the result?

- A. A compilation error occurs at line n1.
- B. A compilation error occurs at line n2.
- C. The code reads the password without echoing characters on the console.
- D. A compilation error occurs because the IOException isn't declared to be thrown or caught?

Answer: D

NEW QUESTION 159

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.

Answer: D

NEW QUESTION 164

Given the code fragment:

```
Deque<String> queue = new ArrayDeque<>();
queue.add("Susan");
queue.add("Allen");
queue.add("David");
System.out.println(queue.pop());
System.out.println(queue.remove());
System.out.println(queue);
```

What is the result?

- A. DavidDavid[Susan, Allen]
- B. SusanSusan[Susan, Allen]
- C. SusanAllen [David]
- D. DavidAllen [Susan]
- E. SusanAllen[Susan, David]

Answer: C

NEW QUESTION 167

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

Answer: D

NEW QUESTION 168

Given:

```
class Block {
    String color;
    int size;
    Block(int size, String color) {
        this.size = size;
        this.color = color;
    }
}
```

and the code fragment:

```
List<Block> blocks = new ArrayList<>();
blocks.add(new Block(10, "Green"));
blocks.add(new Block(7, "Red"));
blocks.add(new Block(12, "Blue"));
Collections.sort(blocks, new ColorSorter());
```

Which definition of the ColorSorter class sorts the blocks list?


```
A. class ColorSorter implements Comparable<Block> {  
    public boolean compare(Block o1, Block o2) {  
        return o1.color.equals(o2.color);  
    }  
}  
B. class ColorSorter implements Comparable<Block> {  
    public int compareTo(Block o1, Block o2) {  
        return o1.color.compareTo(o2.color);  
    }  
}  
C. class ColorSorter implements Comparator<Block> {  
    public int compare(Block o1, Block o2) {  
        return o1.color.compareTo(o2.color);  
    }  
}  
D. class ColorSorter implements Comparator<Block> {  
    public boolean compare(Block o1, Block o2) {  
        return o1.color.compareTo(o2.color);  
    }  
}
```

- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: B

NEW QUESTION 173

Given:

```
public class StrMan {
    public static void doStuff(String s) {
        try {
            if (s == null) {
                throw new NullPointerException();
            }
        } finally {
            System.out.println("-finally-");
        }
        System.out.println("-doStuff-");
    }
    public static void main (String[] args) {
        try {
            doStuff(null);
        } catch (NullPointerException npe) {
            System.out.println("-catch-");
        }
    }
}
```

What is the result?

- A. -catch--finally--dostuff-
- B. -catch-
- C. -finally--catch-
- D. -finally-dostuff--catch-

Answer: C

NEW QUESTION 177

Given the code fragment:

```
final List<String> list = new CopyOnWriteArrayList<>();
final AtomicInteger ai = new AtomicInteger(0);
final CyclicBarrier barrier = new CyclicBarrier(2, new Runnable() {
    public void run() { System.out.println(list); }
});
Runnable r = new Runnable() {
    public void run() {
        try {
            Thread.sleep(1000 * ai.incrementAndGet());
            list.add("X");
            barrier.await();
        } catch (Exception ex) {
        }
    }
};
new Thread(r).start();
new Thread(r).start();
new Thread(r).start();
new Thread(r).start();
```

What is the result ?

- A. [X][X, X][X, X, X, X]
- B. [X, X]
- C. [X][X, X][X, X, X]
- D. [X, X][X, X, X, X]

Answer: A

NEW QUESTION 179

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()
.f orEach(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.

Answer: A

NEW QUESTION 184

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 Ford10124 BMW
- B. 10124 BMW10123 Ford
- C. A compilation error occurs.
- D. A ClassCastException is thrown at run time.

Answer: D

NEW QUESTION 185

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}

Answer: B

NEW QUESTION 190

Given:

```
class Engine {
    double fuelLevel;
    Engine(int fuelLevel) { this.fuelLevel = fuelLevel; }
    public void start() {
        // line n1
        System.out.println("Started");
    }
    public void stop() { System.out.println("Stopped"); }
}
```

Your design requires that:

- ☒ fuelLevel of Engine must be greater than zero when the start() method is invoked.
- ☒ The code must terminate if fuelLevel of Engine is less than or equal to zero.

Which code fragment should be added at line n1 to express this invariant condition?

- A. `assert (fuelLevel) : "Terminating...";`
- B. `assert (fuelLevel > 0) : System.out.println ("Impossible fuel");`
- C. `assert fuelLevel < 0: System.exit(0);`
- D. `assert fuelLevel > 0: "Impossible fuel" ;`

Answer: C

NEW QUESTION 194

Given the code fragment:

```
List<String> qwords = Arrays.asList("why ", "what ", "when ");
BinaryOperator<String> operator = (s1, s2) -> s1.concat(s2); // line n1
String sen = qwords.stream()
    .reduce("Word: ", operator);
System.out.println(sen);
```

What is the result?

- A. Word: why what when
- B. Word: why Word: why what Word: why what when
- C. Word: why Word: what Word: when
- D. Compilation fails at line n1.

Answer: A

NEW QUESTION 195

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);`



Answer: B

NEW QUESTION 196

Given the code fragment:

```
try {
    Properties prop = new Properties();
    prop.put("user", userName);
    prop.put("password", passWord);
    Connection conn = DriverManager.getConnection(dbURL, prop);
    if(conn != null){
        System.out.print("Connection Established");
    }
} catch (Exception e) {
    System.out.print(e);
}
```

and the information:

-  The required database driver is configured in the classpath.
-  The appropriate database is accessible with the dbURL, username, and passWord exists. What is the result?

- A. A ClassNotFoundException is thrown at runtime.
- B. The program prints nothing.
- C. The program prints Connection Established.
- D. A SQLException is thrown at runtime.

Answer: C

NEW QUESTION 200

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: BD

NEW QUESTION 201

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 : 602 : 303 : 201 : 10
- E. The program prints nothing.

Answer: C

NEW QUESTION 203

Given the content:

```
MessagesBundle.properties file:
```

```
username = Enter User Name  
password = Enter Password
```

```
MessagesBundle_fr_FR.properties file:
```

```
username = Entrez le nom d'utilisateur  
password = Entrez le mot de passe
```

and the code fragment:

```
Locale currentLocale = new Locale.Builder().setRegion("FR").setLanguage("fr").build();  
ResourceBundle messages = ResourceBundle.getBundle("MessagesBundle", currentLocale);  
Enumeration<String> names = messages.getKeys();  
while (names.hasMoreElements()) {  
    String key = names.nextElement();  
    String name = messages.getString(key);  
    System.out.println(key + " = " + name);  
}
```

What is the result?

- A. username = Entrez le nom d'utilisateur password = Entrez le mot de passe
- B. username = Enter User Name password = Enter Password
- C. A compilation error occurs.
- D. The program prints nothing.

Answer: A

NEW QUESTION 208

Given the code fragment:

```
List<String> li = Arrays.asList("Java", "J2EE", "J2ME", "JSTL", "JSP", "Oracle DB");
Predicate<String> val = p -> p.contains("J");
List<String> neLi = li.stream().filter(x -> x.length() > 3)
    .filter(val).collect(Collectors.toList());
System.out.println(neLi);
```

What is the result?

- A. A compilation error occurs.
- B. [Java, J2EE, J2ME, JSTL, JSP]
- C. null
- D. [Java, J2EE, J2ME, JSTL]

Answer: A

NEW QUESTION 210

Given the code fragment:

```
List<String> nums = Arrays.asList("EE", "SE");
String ans = nums
    .parallelStream()
    .reduce("Java ", (a, b) -> a.concat(b));
System.out.print(ans);
```

What is the result?

- A. Java EEJava EESE
- B. Java EESE
- C. The program prints either:Java EEJava SE orJava SEJava EE
- D. Java EEJava SE

Answer: D

NEW QUESTION 212

Given that version.txt is accessible and contains: 1234567890
 and given the code fragment:

```
try (FileInputStream fis = new FileInputStream("version.txt");
    InputStreamReader isr = new InputStreamReader(fis);
    BufferedReader br = new BufferedReader(isr);) {
    if (br.markSupported()) {
        System.out.print((char) br.read());
        br.mark(2);
        System.out.print((char) br.read());
        br.reset();
        System.out.print((char) br.read());
    }
} catch (Exception e) {
    e.printStackTrace();
}
```

What is the result?

- A. 121
- B. 122
- C. 135
- D. The program prints nothing.

Answer: B

NEW QUESTION 214

Given the code fragments :

```
public class Product {
    String name;
    Integer price;
    Product(String name, Integer price) {
        this.name = name;
        this.price = price;
    }
    public void printVal(){ System.out.print(name + " Price:" + price + " "); }
    public void setPrice(int price) { this.price = price; }
    public Integer getPrice() { return price; }
}
```

and

```
List<Product> li = Arrays.asList(new Product("TV", 1000), new Product("Refrigerator",
2000));
Consumer<Product> raise = e -> e.setPrice(e.getPrice() + 100);
li.forEach(raise);
li.stream().forEach(Product::printVal);
```

What is the result?

- A. TV Price :110 Refrigerator Price :2100
- B. A compilation error occurs.
- C. TV Price :1000 Refrigerator Price :2000
- D. The program prints nothing.

Answer: C

NEW QUESTION 216

Given the code fragment:

```
LocalTime now = LocalTime.now();
long timeToBreakfast = 0;
LocalTime office_start = LocalTime.of(7, 30);
if (office_start.isAfter(now)) {
    timeToBreakfast = now.until(office_start, MINUTES);
} else {
    timeToBreakfast = now.until(office_start, HOURS);
}
System.out.println(timeToBreakfast);
```

Assume that the value of now is 6:30 in the morning. What is the result?

- A. An exception is thrown at run time.
- B. 60
- C. 1

Answer:

NEW QUESTION 220

Given the code fragment:

```
Deque<Integer> nums = new ArrayDeque<>();
nums.add(1000);
nums.push(2000);
nums.add(3000);
nums.push(4000);
Integer i1 = nums.remove();
Integer i2 = nums.pop();
System.out.println(i1 + " : " + i2);
```

What is the result?

- A. 4000 : 2000
- B. 4000 : 1000
- C. 1000 : 4000
- D. 1000 : 2000

Answer: B

NEW QUESTION 225

Given the code fragment:

```
class CallerThread implements Callable<String> { String str;
public CallerThread(String s) {this.str=s;} public String call() throws Exception { return str.concat("Call");
}
}
and
public static void main (String[] args) throws InterruptedException, ExecutionException
{
ExecutorService es = Executors.newFixedThreadPool(4); //line n1 Future f1 = es.submit (newCallerThread("Call"));
String str = f1.get().toString(); System.out.println(str);
}
```

Which statement is true?

- A. The program prints Call Call and terminates.
- B. The program prints Call Call and does not terminate.
- C. A compilation error occurs at line n1.
- D. An ExecutionException is thrown at run time.

Answer: B

NEW QUESTION 229

Given the code fragment:

```
10. try {
11.     Connection conn = DriverManager.getConnection(dbURL, userName, passWord);
12.     String query = "SELECT * FROM Employee WHERE ID = 110";
13.     Statement stmt = conn.createStatement();
14.     ResultSet rs = stmt.executeQuery(query);
15.     System.out.println("Employee ID: " + rs.getInt("ID"));
16. } catch (Exception se) {
17.     System.out.println("Error");
18. }
```

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 table has a column ID of type integer and the SQL query matches one record. What is the result?

- A. Compilation fails at line 14.
- B. Compilation fails at line 15.
- C. The code prints the employee ID.
- D. The code prints Error.

Answer: A

NEW QUESTION 230

Which two reasons should you use interfaces instead of abstract classes? (Choose two.)

- A. You expect that classes that implement your interfaces have many common methods or fields, or require access modifiers other than public.
- B. You expect that unrelated classes would implement your interfaces.
- C. You want to share code among several closely related classes.
- D. You want to declare non-static on non-final fields.
- E. You want to take advantage of multiple inheritance of type.

Answer: BE

NEW QUESTION 233

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<Person>`
- 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<Person>`
- 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<Person>`

Answer: CE

NEW QUESTION 236

Given the definition of the Employee class:

```
class Employee {
    String dept, name;
    public Employee(String d, String n) {
        dept = d;
        name = n;
    }
    public String toString() {
        return getDept() + ":" + getName();
    }
    public String getDept() { return dept; }
    public String getName() { return name; }
}
```

and this code fragment:

```
List<Employee> emps = Arrays.asList(new Employee("sales", "Ada"),
    new Employee("sales", "Bob"),
    new Employee("hr", "Bob"),
    new Employee("hr", "Eva"));
Stream<Employee> s = emps.stream()
    .sorted(Comparator.comparing((Employee e) -> e.getDept())
        .thenComparing((Employee e) -> e.getName()));
List<Employee> eSorted = s.collect(Collectors.toList());
System.out.println(eSorted);
```

What is the result?

- A. [sales:Ada, hr:Bob, sales:Bob, hr:Eva]
- B. [Ada:sales, Bob:sales, Bob:hr, Eva:hr]
- C. [hr:Eva, hr:Bob, sales:Bob, sales:Ada]
- D. [hr:Bob, hr:Eva, sales:Ada, sales:Bob]

Answer: A

NEW QUESTION 240

Given: Book.java:

```
public class Book {
    private String read(String bname) { return "Read" + bname }
}
```

EBook.java:

```
public class EBook extends Book {
    public String read (String url) { return "View" + url }
}
```

Test.java:

```
public class Test {
    public static void main (String[] args) { Book b1 = new Book();
    b1.read("Java Programing"); Book b2 = new EBook();
    b2.read("http://ebook.com/ebook");
    }
}
```

What is the result?

- A. Read Java Programming View http:/ ebook.com/ebook

- B. Read Java Programming Read [http:// ebook.com/ebook](http://ebook.com/ebook)
C. The EBook.java file fails to compile.
D. The Test.java file fails to compile.

Answer: D

NEW QUESTION 241

Given the code fragment:

```
Path path1 = Paths.get("/software/././sys/readme.txt");
Path path2 = path1.normalize();
Path path3 = path2.relativize(path1);
System.out.print(path1.getNameCount());
System.out.print(" : " + path2.getNameCount());
System.out.print(" : " + path3.getNameCount());
```

What is the result?

- A. 5 : 3 : 6
B. 6 : 5 : 6
C. 3 : 3 : 4
D. 4 : 4 : 4

Answer: D

NEW QUESTION 243

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).reversed().thenComparing(Emp::getlName))
B. .sorted (Comparator.comparing(Emp::getfName).thenComparing(Emp::getlName))
C. .map(Emp::getfName).sorted(Comparator.reverseOrder())
D. .map(Emp::getfName).sorted(Comparator.reverseOrder()).map (Emp::getlName).reversed

Answer: A

NEW QUESTION 246

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());

Answer: A

NEW QUESTION 247

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> addrs1 = Optional.ofNullable (address);
Employee e1 = new Employee (addrs1);
String eAddress = (addrs1.isPresent()) ? addrs1.get().getCity() : "City Not available";
What is the result?
```

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

Answer: B

NEW QUESTION 249

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.

Answer: C

NEW QUESTION 253

Given the code fragments:

```
class R implements Runnable {
    public void run() { System.out.println("Run..."); }
}

class C implements Callable<String> {
    public String call() throws Exception { return "Call..."; }
}
```

and

```
ExecutorService es = Executors.newSingleThreadExecutor();
es.execute(new R()); // line n1
Future<String> f1 = es.submit(new C()); // line n2
System.out.println(f1.get());
es.shutdown();
```

What is the result?

- A. The program prints Run... and throws an exception.
- B. A compilation error occurs at line n1.
- C. Run...Call...
- D. A compilation error occurs at line n2.

Answer: B

NEW QUESTION 257

Given the code fragments:

```
public static Optional<String> getCountry(String loc) {
    Optional<String> couName = Optional.empty();
    if ("Paris".equals(loc))
        couName = Optional.of("France");
    else if ("Mumbai".equals(loc))
        couName = Optional.of("India");
    return couName;
}
```

and


```
Optional<String> city1 = getCountry("Paris");
Optional<String> city2 = getCountry("Las Vegas");
System.out.println(city1.orElse("Not Found"));
if (city2.isPresent())
    city2.ifPresent(x -> System.out.println(x));
else
    System.out.println(city2.orElse("Not Found"));
```

What is the result?

- A. FranceOptional[NotFound]
- B. Optional [France] Optional [NotFound]
- C. Optional[France] Not Found
- D. FranceNot Found

Answer: D

NEW QUESTION 261

Given the code fragment:

```
List<Integer> li = Arrays.asList(10, 20, 30);
Function<Integer, Integer> fn = f1 -> f1 + f1;
Consumer<Integer> conVal = s -> System.out.print("Val:" + s + " ");
li.stream().map(fn).forEach(conVal);
```

What is the result?

- A. Val:20 Val:40 Val:60
- B. Val:10 Val:20 Val:30
- C. A compilation error occurs.
- D. Val: Val: Val:

Answer: B

NEW QUESTION 266

Given:

```
class Person {
    String name;
    int age;
    public Person(String name, int age) {
        this.name = name;
        this.age = age;
    }
    public String getName(){ return name; }
    public int getAge(){ return age; }
}
```

and the code fragment:

```
List<Person> sts = Arrays.asList(
    new Person("Jack", 30),
    new Person("Mike Hill", 21),
    new Person("Thomas Hill", 24));
Stream<Person> resList = sts.stream().filter(s -> s.getAge() >= 25); // line n1
long count = resList.filter(s -> s.getName().contains("Hill")).count();
System.out.print(count);
```

What is the result?

- A. A compilation error occurs at line n1.
- B. An Exception is thrown at run time.
- C. 2

Answer: B

NEW QUESTION 267

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