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Java SE 8 Programmer II

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QUESTION 1

Given:

IntStream stream = IntStream.of (1,2,3);

IntFunction inFu= x -> y -> x*y; //line n1

IntStream newStream = stream.map(inFu.apply(10)); //line n2

newStream.forEach(System.output::print);

Which modification enables the code fragment to compile?

A. Replace line n1 with: IntFunction inFu = x -> y -> x*y;

B. Replace line n1 with: IntFunction inFu = x -> y -> x*y;

C. Replace line n1 with: BiFunction inFu = x -> y -> x*y;

D. Replace line n2 with: IntStream newStream = stream.map(inFu.applyAsInt (10));

Correct Answer: B

QUESTION 2

Given the code fragments:

class Employee { Optional address;

Employee (Optional address) {

this.address = address;

}

public Optional getAddress() { return address; }

}

class Address {

String city = "New York";

public String getCity { return city: }

public String toString() {

return city;

}

}

and

Address address = null;

Optional 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.

Correct Answer: B

QUESTION 3

Given that these files exist and are accessible:

/sports/info.txt

/sports/cricket/players.txt

/sports/cricket/data/ODI.txt

and given the code fragment:

int maxDepth =2;

Stream paths = Files.find(Paths.get("/sports"),

maxDepth,

(p, a) -> p.getFileName().toString().endsWith ("txt"),

FileVisitOption.FOLLOW_LINKS);

Long fCount = paths.count();

System.out.println(fCount);

Assuming that there are NO soft-link/symbolic links to any of the files in the directory structure, what is the

result?

A. 1

B. 2

C. 3

D. An Exception is thrown at runtime.

Correct Answer: D

QUESTION 4

Which two statements are true about synchronization and locks? (Choose two.)

A. A thread automatically acquires the intrinsic lock on a synchronized statement when executed.

B. The intrinsic lock will be retained by a thread if return from a synchronized method is caused by an uncaught exception.

C. A thread exclusively owns the intrinsic lock of an object between the time it acquires the lock and the time it releases it.

D. A thread automatically acquires the intrinsic lock on a synchronized method\\'s object when entering that method.

E. Threads cannot acquire intrinsic locks on classes.

Correct Answer: AB

Reference: https://docs.oracle.com/javase/tutorial/essential/concurrency/locksync.html

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QUESTION 5

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

Correct Answer: BD

QUESTION 6

Given:

```
class Product {
    String pname;
    public Product(String pname) {
        this.pname = pname;
    }
}
```

and the code fragment:

```
Product p1 = new Product("PowerCharger");
Product p2 = p1;
System.out.println(p1.equals(p2));
Product p3 = new Product("PowerCharger");
System.out.println(p1.equals(p3));
```

What is the result?

A. true true

B. false true

C. false false

D. true false

Correct Answer: D

QUESTION 7

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 = Arrays.asList (

new Emp ("John", "Smith"),

new Emp ("Peter", "Sam"),

new Emp ("Thomas", "Wale"));

emp.stream()

//line n1

.collect(Collectors.toList());

Which code fragment, when inserted at line n1, sorts the employees list in descending order of fName and

then ascending order of lName?

A. .sorted (Comparator.comparing(Emp::getfName).reserved().thenComparing(Emp::getlName))

B. .sorted (Comparator.comparing(Emp::getfName).thenComparing(Emp::getlName))

C. .map(Emp::getfName).sorted(Comparator.reserveOrder())

D. .map(Emp::getfName).sorted(Comparator.reserveOrder().map(Emp::getlName).reserved

Correct Answer: B

QUESTION 8

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–

Correct Answer: C

QUESTION 9

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.

Correct Answer: A

QUESTION 10

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.

Correct Answer: D

Reference: https://docs.oracle.com/cd/E13222_01/wls/docs45/classdocs/java.sql.Statement.html

QUESTION 11

Given the code fragment:

BiFunction val = (t1, t2) -> t1 + t2; //line n1 //line n2 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: D

QUESTION 12

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, X, X, X]

B. [X, X]

C. [X] [X, X] [X, X, X]

D. [X, X] [X, X, X, X]

Correct Answer: A

QUESTION 13

Given the code fragment:

List nL = Arrays.asList("Jim", "John", "Jeff");

Function funVal = s -> "Hello : ".concat(s);

nL.Stream()

.map(funVal)

.forEach(s-> System.out.print (s));

What is the result?

A. Hello : Jim Hello : John Hello : Jeff

B. Jim John Jeff

C. The program prints nothing.

D. A compilation error occurs.

Correct Answer: C

QUESTION 14

Given the code fragment:

```
Map<Integer, Integer> mVal = new HashMap<>();
mVal.put(1, 10);
mVal.put(2, 20);
//line n1
c.accept(1, 2);
mVal.forEach(c);
```

Which statement can be inserted into line n1 to print 1,2; 1,10; 2,20;? {System.out.print (i + "," + j+ "; ");};

A. BiConsumer c = (i, j) ->

B. BiFunction c = (i, j) ?gt; {System.out.print (i + "," + j+ "; ")};

C. BiConsumer c = (i, j) ?gt; {System.out.print (i + "," + j+ "; ")};

D. BiConsumer c = (i, j) ?gt; {System.out.print (i + "," + j+ "; ");};

Correct Answer: B

Reference: https://www.concretepage.com/java/jdk-8/java-8-biconsumer-bifunction-bipredicate-example

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QUESTION 15

Given the code fragments: and

```
public class Video {
    public void play() throws IOException {
        System.out.print("Video played.");
    }
}

public class Game extends Video {
    public void play() throws Exception {
        super.play();
        System.out.print("Game played.");
    }
}
```

```
try {
    new Game().play();
} catch (Exception e) {
    System.out.print(e.getClass());
}
```

What is the result?

A. Video played.Game played.

B. A compilation error occurs.

C. class java.lang.Exception

D. class java.io.IOException

Correct Answer: C