# 1Z0-809 Q&As

Java SE 8 Programmer II

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**QUESTION 1**

The data.doc, data.txt and data.xml files are accessible and contain text.

Given the code fragment:

```
Stream paths = Stream.of (Paths. get("data.doc"),
Paths. get("data.txt"),
Paths. get("data.xml"));
paths.filter(s-> s.toString().endWith("txt")).forEach(
s -> {
try {
Files.readAllLines(s)
.stream()
.forEach(System.out::println); //line n1
} catch (IOException e) {
System.out.println("Exception");
}
}
);
```

What is the result?

A. The program prints the content of data.txt file.

B. The program prints: Exception Exception

C. A compilation error occurs at line n1.

D. The program prints the content of the three files.

Correct Answer: A

**QUESTION 2**

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

**QUESTION 3**

Given the code fragment:

```
public class Foo {
public static void main (String [ ] args) {
Map unsortMap = new HashMap ( );
unsortMap.put (10, "z");
unsortMap.put (5, "b");
unsortMap.put (1, "d");
unsortMap.put (7, "e");
unsortMap.put (50, "j");
Map treeMap = new TreeMap (new Comparator ( ) {
@Override public int compare (Integer o1, Integer o2) {return o1.compareTo (o2); } } );
treeMap.putAll (unsortMap);
for (Map.Entry entry : treeMap.entrySet () ) { System.out.print (entry.getValue () + " ");
}
}
}
```

What is the result?

A. A compilation error occurs.

B. d b e z j

C. j z e b d

D. z b d e j

Correct Answer: B

**QUESTION 4**

Given the code fragments:

class ThreadRunner implements Runnable {

public void run () { System.out.print ("Runnable") ; }

}

class ThreadCaller implements Callable {

Public String call () throws Exception {return "Callable"; )

}

and

ExecutorService es = Executors.newCachedThreadPool ();

Runnable r1 = new ThreadRunner ();

Callable c1 = new ThreadCaller ();

// line n1

es.shutdown();

Which code fragment can be inserted at line n1 to start r1 and c1 threads?

A. Future f1 = (Future) es.submit (r1); es.execute (c1);

B. es.execute (r1); Future f1 = es.execute (c1) ;

C. Future f1 = (Future) es.execute(r1); Future f2 = (Future) es.execute(c1);

D. es.submit(r1); Future f1 = es.submit (c1);

Correct Answer: D

**QUESTION 5**

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. France Optional[NotFound]

B. Optional [France] Optional [NotFound]

C. Optional[France] Not Found

D. France Not Found

Correct Answer: D

**QUESTION 6**

Given the code fragment:

UnaryOperator uo1 = s -> s*2; //line n1

List loanValues = Arrays.asList(1000.0, 2000.0);

loanValues.stream()

.filter(lv -> lv >= 1500)

.map(lv -> uo1.apply(lv)) //line n2

.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

**QUESTION 7**

Given the content of the employee.txt file:

Every worker is a master.

Given that the employee.txt file is accessible and the file allemp.txt does NOT exist, and the code

fragment:

```
try {
    List<String> content = Files.readAllLines(Paths.get("employee.txt"));
    content.stream().forEach(line -> {
        try {
            Files.write(
                Paths.get("allemp.txt"),
                line.getBytes(),
                StandardOpenOption.APPEND
            );
        } catch (IOException e) { System.out.println("Exception 1"); }
    });
} catch (IOException e) { System.out.println("Exception 2"); }
```

What is the result?

A. Exception 1

B. Exception 2

C. The program executes, does NOT affect the system, and produces NO output.

D. allemp.txt is created and the content of employee.txt is copied to it.

Correct Answer: A

**QUESTION 8**

Given the code fragment:

List empDetails = Arrays.asList("100, Robin, HR", "200, Mary, AdminServices","101, Peter, HR");

empDetails.stream()

.filter(s-> s.contains("r"))

.sorted()

.forEach(System.out::println); //line n1

What is the result?

A. 100, Robin, HR 101, Peter, HR

B. E. A compilation error occurs at line n1.

C. 101, Peter, HR 200, Mary, AdminServices

D. 100, Robin, HR 200, Mary, AdminServices 101, Peter, HR

Correct Answer: D

**QUESTION 9**

Given the code fragments:

interface CourseFilter extends Predicate { public default boolean test (String str) {

return str.contains ("Java");

}

}

and

List strs = Arrays.asList("Java", "Java EE", "Embedded Java");

Predicate cf1 = s - > s.length() > 3;

Predicate cf2 = new CourseFilter() { //line n1

public boolean test (String s) {

return s.startsWith ("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: D

**QUESTION 10**

Given:

public class Counter {

public static void main (String[ ] args) {

int a = 10;

int b = -1;

assert (b >=1) : "Invalid Denominator";

int = a / b;

System.out.println (c);

}

}

What is the result of running the code with the -ea option?

A. -10

B. 0

C. An AssertionError is thrown.

D. A compilation error occurs.

Correct Answer: C

**QUESTION 11**

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 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(scr));

What is the result?

A. A compilation error occurs.

B. Java EE Java ME

C. [Java EE: Helen:Houston] [Java ME: Jessy:Chicago, Java ME: Mark:Chicago]

D. [Java ME: Jessy:Chicago, Java ME: Mark:Chicago] [Java EE: Helen:Houston]

Correct Answer: B

**QUESTION 12**

Given the code fragment:

LocalDate valentinesDay =LocalDate.of(2015, Month.FEBRUARY, 14);

LocalDate next15days = valentinesDay.plusDays (15);

LocalDate nextYear = next15days.plusYears(1); // line n1

System.out.println(nextYear);

What is the result?

A. 2016-03-01

B. A DateTimeException is thrown.

C. 2016-02-29

D. A compilation error occurs at line n1.

Correct Answer: D

**QUESTION 13**

Given the code fragment:

```
class CallerThread implements Callable {
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.

Correct Answer: B

**QUESTION 14**

Given the code fragment:

```
List empDetails = Arrays.asList("100, Robin, HR",
"200, Mary, AdminServices",
```

"101, Peter, HR");

empDetails.stream()

.filter(s-> s.contains("1"))

.sorted()

.forEach(System.out::println); //line n1

What is the result?

A. 100, Robin, HR 101, Peter, HR

B. A compilation error occurs at line n1.

C. 100, Robin, HR 101, Peter, HR 200, Mary, AdminServices

D. 100, Robin, HR 200, Mary, AdminServices 101, Peter, HR

Correct Answer: A

**QUESTION 15**

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