

1Z0-809^{Q&As}

Java SE 8 Programmer II

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QUESTION 1

Given the code fragment:

```
Stream iStr= Stream.of (  
Arrays.asList ("1", "John"),  
Arrays.asList ("2", null));  
Stream 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

QUESTION 2

Given:

```
public class Test {  
private T t;  
public T get () {  
return t;  
}  
public void set (T t) {  
this.t = t;  
}  
public static void main (String args []) {  
Test 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@java.lang.Integer@
- C. A compilation error occurs. To rectify it, replace line n1 with: Test type1 = new Test();
- D. A compilation error occurs. To rectify it, replace line n2 with: type1.set (Integer(100));

Correct Answer: A

QUESTION 3

Given the code fragment:

```
Stream 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.

Correct Answer: A

QUESTION 4

Given the code fragment:

```
List colors = Arrays.asList("red", "green", "yellow");
```

```
Predicate 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.

Correct Answer: C

QUESTION 5

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 6

Given the code fragment:

```
Path path1 = Paths.get("/app/./sys/");
```

```
Path res1 = path1.resolve("log");
```

```
Path path2 = Paths.get("/server/exe/");
```

```
Path res2 = path2.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

Correct Answer: B

QUESTION 7

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

QUESTION 8

Given the code fragment:

```
Path path1 = Paths.get("/software/././sys/readme.txt");  
Path path2 = path1.normalize();  
Path path3 = path2.relative(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

Correct Answer: D

QUESTION 9

Given the definition of the Employee class: and this code fragment:

```
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; }  
}
```

```
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]

Correct Answer: A

QUESTION 10

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 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 : 60
- 2 : 30
- 3 : 20
- 1 : 10
- E. The program prints nothing.

Correct Answer: C

QUESTION 11

Given the definition of the Book class:


```
public class Book {  
    private int id;  
    private String name;  
    public Book(int id, String name) {this.id = id; this.name = name;}  
    public int getId() { return id; }  
    public String getName() { return name; }  
    public void setId(int id) { this.id = id; }  
    public void setName(String name) { this.name = name; }  
}
```

Which statement is true about the Book class?

- A. It demonstrates encapsulation.
- B. It is defined using the factory design pattern.
- C. It is defined using the singleton design pattern.
- D. It demonstrates polymorphism.
- E. It is an immutable class.

Correct Answer: A

QUESTION 12

Given:

```
class UserException extends Exception { }  
class AgeOutOfLimitException extends UserException { }
```

and the code fragment:

```
class App {
    public void doRegister(String name, int age)
    throws UserException, AgeOutOfLimitException {
        if (name.length () < 5) {
            throw new UserException ();
        } else if (age > 60) {
            throw AgeOutOfLimitException ();
        } else {
            System.out.println("User is registered.");
        }
    }
    public static void main(String[] args) throws UserException {

        App t = new App ();
        t.doRegister("Mathew", 60);
    }
}
```

What is the result?

- A. User is registered.
- B. An AgeOutOfLimitException is thrown.
- C. A UserException is thrown.
- D. A compilation error occurs in the doRegister method.

Correct Answer: B

QUESTION 13

Which two statements are true about the Fork/Join Framework? (Choose two.)

- A. The RecursiveTask subclass is used when a task does not need to return a result.
- B. The Fork/Join framework can help you take advantage of multicore hardware.
- C. The Fork/Join framework implements a work-stealing algorithm.
- D. The Fork/Join solution when run on multicore hardware always performs faster than standard sequential solution.

Correct Answer: AC

Reference: <https://www.logicbig.com/tutorials/core-java-tutorial/java-multi-threading/fork-and-join.html>

QUESTION 14

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 fc = Files.list(file); fc.stream().forEach (s -> System.out.println(s));
- B. Stream fc = Files.readAllLines (file); fc.forEach (s -> System.out.println(s));
- C. List fc = readAllLines(file); fc.stream().forEach (s -> System.out.println(s));
- D. Stream fc = Files.lines (file); fc.forEach (s -> System.out.println(s));

Correct Answer: D

QUESTION 15

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

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