

OCP QUESTION 4

Given the code fragment:

```
List<Integer> numbers = Arrays.asList(1, 2, 3);  
numbers.stream()  
    .map(num -> num*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

OCP QUESTION 7

Given the code fragments:

```
class OS {  
    String name;  
    OS (String name) {  
        this.name = name;  
    }  
}
```

and

```
List<OS> list = Arrays.asList(  
    new OS("Windows "),  
    new OS("Solaris "),  
    new OS("Linux ")  
);  
Stream<OS> creek = list.stream();  
//line n1
```

Which should be inserted at line n1 to print Windows Solaris Linux ?

- A. `creek.forEach(System.out::print);`
- B. `creek.map(a -> a.name).forEach(System.out::print);`
- C. `creek.map(a -> a).forEachOrdered(System.out::print);`
- D. `creek.forEachOrdered(System.out::print);`

OCP QUESTION 49

Given the code fragment:

```
List<String> listVal = Arrays.asList("Joe", "Paul", "Alice", "Tom");  
System.out.println (  
    // line n1  
);
```

Which code fragment, when inserted at line n1, enables the code to print the count of string elements whose length is greater than three?

- A. `listVal.stream().filter(x -> x.length()>3).count()`
- B. `listVal.stream().map(x -> x.length()>3).count()`
- C. `listVal.stream().peek(x -> x.length()>3).count().get()`
- D. `listVal.stream().filter(x -> x.length()>3).mapToInt(x -> x).count()`

OCP QUESTION 50

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.

OCP QUESTION 52

Given the code fragment:

```
Path file = Paths.get("passwords.txt");  
// line n1
```

Assume the passwords.txt is accessible. Which code fragment can be inserted at line n1 to enable the code to print the content of the passwords.txt file?

- A.** `List<String> fc = Files.list(file);
fc.stream().forEach(x -> System.out.println(x));`
- B.** `Stream<String> fc = Files.readAllLines(file);
fc.forEach(x -> System.out.println(x));`
- C.** `List<String> fc = readAllLines(file);
fc.stream().forEach(x -> System.out.println(x));`
- D.** `Stream<String> fc = Files.lines(file);
fc.forEach(x -> System.out.println(x));`

OCP QUESTION 73

Given the code fragment:

```
Stream<List<String>> listStream = Stream.of(  
    Arrays.asList("1", "Smith"),  
    Arrays.asList("2", null));  
IntStream intStream = listStream.flatMapToInt((x) -> x.stream());  
intStream.forEach(System.out::print);
```

What is the result?

- A. 1Smith2null
- B. 12
- C. A NullPointerException is thrown at run time
- D. A compilation error occurs

OCP QUESTION 76

Given the code fragment:

```
List<String> names = Arrays.asList("Alice", "Bob", "Chuck");  
Function<String, String> func = x -> "Hi ".concat(x);  
names.stream()  
    .map(func)  
    .peek(System.out::println);
```

What is the result?

- A.** Hi Alice
Hi Bob
Hi Chuck
- B.** Alice
Bob
Chuck
- C.** The program prints nothing
- D.** A compilation error occurs

OCP QUESTION 78

Given the code fragment:

```
List<String> planets = Arrays.asList("Mercury, 0",  
    "Venus, 0",  
    "Earth, 1",  
    "Mars, 2");  
planets.stream()  
    .filter(x -> x.contains("M"))  
    .sorted()  
    .forEach(System.out::println);    //line n1
```

What is the result?

- A. Mars, 2
Mercury, 0
- B. A compilation error occurs at line n1
- C. Mercury, 0
Venus, 0
Earth, 1
Mars, 2
- D. Earth, 0
Venus, 0

OCP QUESTION 87

Given the code fragment:

```
List<Integer> list = Arrays.asList(13, 6, 62);  
System.out.println(  
    //line n1  
);
```

Which code fragment must be inserted at line n1 to enable the code to print the minimum number in the list object?

- A. `list.stream().min(Comparator.comparing(x -> x)).get()`
- B. `list.stream().min(Integer::min).get()`
- C. `list.stream().min()`
- D. `list.stream().map(x -> x).min()`

OCP QUESTION 97

Given the code fragment:

```
List<String> archives = Arrays.asList("ZIP", "RAR", "TAR");
archives.forEach(x -> System.out.print(x + " "));
String common = archives.stream()
    .filter(x -> x.contains("AR"))
    .reduce((x, y) -> x + y).get();
System.out.println("\n" + common);
```

What is the result?

- A. ZIP RAR TAR
RARTAR
- B. ZIP RAR RARTAR
RARRARTAR
- C. RARTAR
RARTAR
- D. The order of the output is unpredictable.

OCP QUESTION 99

Given:

```
class Car {
    private List<Wheel> wheels;
    public Car(){ wheels = Arrays.asList(
        new Wheel(), new Wheel(), new Wheel(), new Wheel());
    }
    public List<Wheel> getWheels() {
        return wheels;
    }
}
class Wheel {
    private int airPressure;
    public Wheel(){
        airPressure = (int)(Math.random()*100); // sets random values
                                                // from 0 to 99 incl.
    }
    public int getAirPressure() {
        return airPressure;
    }
}
class Test{
    public static void main(String[] args) {
        List<Car> cars = Arrays.asList(new Car(), new Car(), new Car());
        System.out.println(cars.stream()
                                .map(Car::getWheels)                // line n1
                                .flatMap(Wheel::stream)              // line n2
                                .mapToInt(Wheel::getAirPressure)      // line n3
                                .max()                                // line n4
                                .isPresent()                          // line n5
                                );
    }
}
```

Which two modifications, when applied together, will let the code find the maximum value of air pressure of all wheels in all the cars?

- A. Remove line n5
- B. Replace line n5 with
 .orElse(12345)
- C. Replace line n2 with
 .flatMapToInt(List::stream)
- D. Replace line n2 with
 .flatMap(List::stream)
- E. Replace line n3 with
 .flatMap(Wheel::getAirPressure)
- F. Replace line n5 with
 .isPresent(Wheel::getAirPressure)

OCP QUESTION 100

Given in ForrestGump.java:

```
String str = "I been a idiot since I was born. My IQ is near 70, which  
qualifies me, so they say."; // line n1  
Optional<String> result = Stream.of(  
    str.split("[ ,.]")).anyMatch(x->x.startsWith("I")); // line n2  
System.out.println(result.get()); // line n3
```

Which one of the following statements is correct?

- A. The code prints either I or IQ.
- B. The code always prints I.
- C. The code prints I if lines n2 and n3 are changed to:

```
String result = Stream.of(sentence.split("[ ,.]"))  
    .anyMatch(x->x.startsWith("I"));  
System.out.println(result.get());
```

- D. The code prints either I or IQ if lines n2 and n3 are changed to:

```
Optional<String> result = Stream.of(str.split("[ ,.]"))  
    .parallel()  
    .anyMatch(x->x.startsWith("I"));  
System.out.println(result.get());
```

- E. The code fails to compile.