

1Z0-816^{Q&As}

Java SE 11 Programmer II

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QUESTION 1

Given:

```
var fruits = List.of("apple", "orange", "banana", "lemon");
```

You want to examine the first element that contains the character n.

Which statement will accomplish this?

- A. `String result = fruits.stream().filter(f -> f.contains("n")).findAny();`
- B. `fruits.stream().filter(f -> f.contains("n")).forEachOrdered(System.out::print);`
- C. `Optional result = fruits.stream().filter(f -> f.contains("n")).findFirst ();`
- D. `Optional result = fruits.stream().anyMatch(f -> f.contains("n"));`

Correct Answer: B

```
1 import java.io.*;
2 import java.util.*;
3 public class abc {
4     public static void main(String[] args) {
5
6         var fruits = List.of("apple", "orange", "banana", "lemon");
7
8         fruits.stream().filter(f -> f.contains("n")).forEachOrdered(System.out::print);
9
10    }
11 }
12
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4 Interactive Stdin Input

CommandLine Arguments

Result

CPU Time: 0.19 sec(s), Memory: 33200 kilobyte(s)

```
orangebanana\lemon
```

QUESTION 2

Given the code fragment:

```
var pool = Executors.newFixedThreadPool(5);
```

```
Future outcome = pool.submit(() -> 1);
```

Which type of lambda expression is passed into submit()?

- A. java.lang.Runnable
- B. java.util.function.Predicate
- C. java.util.function.Function
- D. java.util.concurrent.Callable

Correct Answer: D

Reference: <https://www.codota.com/code/java/methods/java.util.concurrent.Executors/newFixedThreadPool>

QUESTION 3

Given:

```
public class Main {
    public static void main(String[] args) {
        try(BufferedReader in = new BufferedReader(new InputStreamReader(System.in))) {
            System.out.print("Input: ");
            String input = in.readLine();
            System.out.println("Echo: " + input);
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}
```

And the command: java Main Helloworld What is the result ?

- A. Input: Echo:
- B. Input: Helloworld Echo: Helloworld
- C. Input: Then block until any input comes from System.in.
- D. Input: Echo: Helloworld
- E. A NullPointerException is thrown at run time.

Correct Answer: C

QUESTION 4

Given:

```
interface MyInterface1 {
    public int method() throws Exception;
    private void pMethod() { /* an implementation of pMethod */ }
}
interface MyInterface2 {
    public static void sMethod() { /* an implementation of sMethod */ }
    public boolean equals();
}
interface MyInterface3 {
    public void method();
    public void method(String str);
}
interface MyInterface4 {
    public void dMethod() { /* an implementation of dMethod */ }
    public void method();
}
interface MyInterface5 {
    public static void sMethod();
    public void method(String str);
}
```

Which two interfaces can be used in lambda expressions? (Choose two.)

- A. MyInterface1
- B. MyInterface3
- C. MyInterface5
- D. MyInterface2
- E. MyInterface4

Correct Answer: CD

Reference: <https://dzone.com/articles/functional-interface-and-lambda-expression>

QUESTION 5

A bookstore's sales are represented by a list of Sale objects populated with the name of the customer and the books they purchased.

```
public class Sale {
```

```
private String customer;

private List items;

// constructor, setters and getters not shown

}

public class Book {

private String name;

private double price;

// constructor, setters and getters not shown

}
```

Given a list of Sale objects, tList, which code fragment creates a list of total sales for each customer in ascending order?

- A.

```
List<String> totalByUser = tList.stream()
    .collect(flatMapping(t -> t.getItems().stream(),
        groupingBy(Sale::getCustomer,
            summingDouble(Book::getPrice))))
    .entrySet().stream()
    .sorted(Comparator.comparing(Entry::getValue))
    .collect(mapping(e -> e.getKey() + ":" + e.getValue(),toList()));
```
- B.

```
List<String> totalByUser = tList.stream()
    .collect(groupingBy(Sale::getCustomer,
        flatMapping(t -> t.getItems().stream(),
            summingDouble(Book::getPrice))))
    .sorted(Comparator.comparing(Entry::getValue))
    .collect(mapping(e -> e.getKey() + ":" + e.getValue(),toList()));
```
- C.

```
List<String> totalByUser = tList.stream()
    .collect(groupingBy(Sale::getCustomer,
        flatMapping(t -> t.getItems().stream(),
            summingDouble(Book::getPrice))))
    .entrySet().stream()
    .sorted(Comparator.comparing(Entry::getValue))
    .collect(mapping(e -> e.getKey() + ":" + e.getValue(),toList()));
```
- D.

```
List<String> totalByUser = tList.stream()
    .collect(flatMapping(t -> t.getItems().stream(),
        groupingBy(Sale::getCustomer,
            summingDouble(Book::getPrice))))
    .sorted(Comparator.comparing(Entry::getValue))
    .collect(mapping(e -> e.getKey() + ":" + e.getValue(),toList()));
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: C

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