

Exam 810: Sample Questions

1. Given the code fragment:

```
public class App {  
    void calcBill() {  
        // Line n1  
        new Invoice().print();  
    }  
}
```

Which code fragment can be inserted at Line n1 to enable the class compile?

- A)

```
private class Invoice {  
    void print() {System.out.println("Invoice Printed");}  
}
```
- B)

```
public class Invoice {  
    void print() {System.out.println("Invoice Printed");}  
}
```
- C)

```
class Invoice {  
    void print() {System.out.println("Invoice Printed");}  
}
```
- D)

```
protected class Invoice {  
    void print() {System.out.println("Invoice Printed");}  
}
```

2. Given:

```
public interface MyInt {  
    public void method1() {  
        System.out.println("method1");  
    }  
    public default void method2() {  
        System.out.println("method2");  
    }  
    public static void method3() {  
        System.out.println("method3");  
    }  
    public abstract void method4();  
}
```

Which statement is true?

- A) Only `method4()` compiles
- B) Only `method2()` and `method4()` compiles.
- C) Only `method2()`, `method3()`, and `method4()` compiles.
- D) `MyInt.java` compiles.

3. Given the code fragment:

```
public static void main(String[] args) {  
    List<String> courses = Arrays.asList("Java", "Oracle", "JSF", "EJB");  
    // Line n1  
    System.out.println(count);  
}
```

Which code fragment can be inserted at Line n1 to enable the code to print 2?

- A) `int count = courses.stream().filter(s -> s.startsWith("J")).count();`
- B) `long count = courses.stream().filter(s -> s.startsWith("J")).count();`
- C) `int count = courses.filter(s -> s.startsWith("J")).stream().count();`
- D) `long count = courses.filter(s -> s.startsWith("J")).stream().count();`

4. Given the code fragment:

```
public class App{  
    public static void main(String[] args) {  
        String[] fruits = {"banana", "apple", "pears", "grapes"};  
        Arrays.sort(fruits, (a, b) -> a.compareTo(b));  
        for (String s : fruits) {  
            System.out.print(" "+s);  
        }  
    }  
}
```

What is the result?

- A) apple banana grapes pears
- B) pears grapes banana apple
- C) banana apple pears grapes
- D) Compilation fails.

5. Given the code fragment:

```
LocalDate date1 = LocalDate.of(2016, Month.JANUARY, 1);  
LocalDateTime date2 = LocalDateTime.of(2017, Month.JUNE, 1, 1, 1);  
Period p = Period.between(date1, date2);  
System.out.print(p.getYears() + ":" + p.getMonths() + ":" + p.getDays());
```

What is the result?

- A) 1:5:0
- B) 1:6:0
- C) 0:0:0
- D) Compilation fails.

6. Given that `/report/jun.txt` and `report/data/jundata.txt` files are accessible and given the code fragment:

```
public static void main(String[] args) {
    try (Stream<Path> st1 = Files.find(Paths.get("/report"), 2, (p, a) ->
        p.toString().endsWith("txt")));
        Stream<Path> st2 = Files.walk(Paths.get("/report"), 2);) {
        st1.forEach(s -> System.out.println("Found: " + s));

        st2.filter(s -> s.toString()
            .endsWith("txt"))
            .forEach(s -> System.out.println("Walked: " + s));

    } catch (IOException ioe) {
        System.out.println("Exception");
    }
}
```

What is the result?

- A) Found: `\report\data\jundata.txt`
Found: `\report\jun.txt`
Walked: `\report\data\jundata.txt`
Walked: `\report\jun.txt`
- B) Found: `\report\data\jundata.txt`
Found: `\report\jun.txt`
Walked: `\report\data\jundata.txt`
Walked: `\report`
Walked: `\report\jun.txt`
Walked: `\report\data\`
- C) Found: `\report\jun.txt`
Walked: `\report\data\jundata.txt`
Walked: `\report\jun.txt`
- D) Found: `\report\jun.txt`
Walked: `\report`
Walked: `\report\jun.txt`
Walked: `\report\data\`
Walked: `\report\data\jundata.txt`

7. Given the code fragment:

```
public static void main(String[] args) {
    Stream<Integer> nums = Stream.of(1, 2, 3, 4, 5);
    nums.filter(n -> n % 2 == 1);
    nums.forEach(p -> System.out.print(p));
}
```

What is the result?

- A) 135
- B) 12345
- C) Compilation fails.

D) An exception is thrown at runtime.

8. Given the code fragment:

```
class MyResource1 implements Closeable {  
    public void close() {  
        System.out.print("r1 ");  
    }  
}  
  
class MyResource2 implements AutoCloseable {  
    public void close() throws IOException {  
        System.out.print("r2 ");  
        throw new IOException();  
    }  
}  
  
public class App2 {  
    public static void main(String[] args) {  
        try (MyResource1 r1 = new MyResource1();  
            MyResource2 r2 = new MyResource2();) {  
            System.out.print("try ");  
        } catch (Exception e) {  
            System.out.print("catch ");  
            for (Throwable t : e.getSuppressed()) {  
                System.out.println(t.getClass().getName());  
            }  
        }  
    }  
}
```

What is the result?

- A) try r2 r1 catch java.io.IOException
- B) try r2 r1 catch
- C) try r1 r2 catch
- D) Compilation fails.

Answers:

- 1. C
- 2. C
- 3. B
- 4. A
- 5. D
- 6. A
- 7. D
- 8. B