



1Z0-816^{Q&As}

Java SE 11 Programmer II

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QUESTION 1

Given:

```
public class MyResource {  
    public MyResource () {  
    }  
    // Resource methods  
}
```

You want to use the myResource class in a try-with-resources statement. Which change will accomplish this?

- A. Extend AutoCloseable and override the close method.
- B. Implement AutoCloseable and override the autoClose method.
- C. Extend AutoCloseable and override the autoClose method.
- D. Implement AutoCloseable and override the close method.

Correct Answer: D

Reference: <https://stackabuse.com/the-try-with-resources-statement-in-java/>

QUESTION 2

Given:

```
// line 1  
List<String> fruits = new ArrayList<>(List.of("apple", "orange", "banana"));  
fruits.replaceAll(function);
```

Which statement on line 1 enables this code fragment to compile?

- A. Function function = String::toUpperCase;
- B. UnaryOperator function = s -> s.toUpperCase();
- C. UnaryOperator function = String::toUpperCase;
- D. Function function = m -> m.toUpperCase();

Correct Answer: C



```
1
2 import java.io.*;
3 import java.util.*;
4 import java.util.stream.Stream;
5 import java.util.function.Function;
6 import java.util.function.UnaryOperator;
7
8 class Hello {
9     public static void main(String[] args) {
10
11         UnaryOperator<String> function = String::toUpperCase;
12         List<String> fruits = new ArrayList<>(List.of("apple", "orange", "banana"));
13         fruits.replaceAll(function);
14
15     }
16 }
17
```

QUESTION 3

Given:

```
public class Tester {
    static class Person implements /* line 1 */ {
        private String name;
        Person(String name) { this.name = name; }
        /* line 2 */
    }
    public static void main(String[] args) {
        Person[] people = {new Person("Joe"),
                           new Person("Jane"),
                           new Person("John")};
        Arrays.sort(people);
        for(Person person: people) {
            System.out.println(person.name);
        }
    }
}
```

You want the code to produce this output:

John Joe Jane

Which code fragment should be inserted on line 1 and line 2 to produce the output?

- A. Insert Comparator on line 1. Insert `public int compare(Person p1, Person p2) { return p1.name.compare(p2.name); }` on line 2.
- B. Insert Comparator on line 1. Insert `public int compareTo(Person person) { return person.name.compareTo(this.name); }` on line 2.
- C. Insert Comparable on line 1. Insert `public int compare(Person p1, Person p2) { return p1.name.compare(p2.name); }`



on line 2.

D. Insert Comparator on line 1. Insert `public int compare(Person person) { return person.name.compare(this.name); }` on line 2.

Correct Answer: B

Reference: <https://www.coursehero.com/file/p320ss6/Override-public-int-compareTo-Person-otherCompare-this-objects-name-to-others/>

QUESTION 4

Given:

```
public class Employee {
    private String name;
    private LocalDate birthday;
    // the constructors, getters, and setters methods go here
}
```

and

```
List<Employee> roster = new ArrayList<>();
// ...
Predicate<Employee> y = (Employee e) -> e.getBirthday()
    .isBefore(IsoChronology.INSTANCE.date(1989, 1, 1));
Set<String> s1 = roster.stream()
// Line 1
```

Which code fragment on line 1 makes the s1 set contain the names of all employees born before January 1, 1989?

- A. `.collect(Collectors.partitioningBy(y))`
`.get(true)`
`.stream()`
`.map(Employee::getName)`
`.collect(Collectors.toCollection(TreeSet::new));`
- B. `.collect(Collectors.partitioningBy(y))`
`.get(true)`
`.map(Employee::getName)`
`.collect(Collectors.toCollection(TreeSet::new));`
- C. `.collect(Collectors.partitioningBy(y, Collectors.mapping(`
`Employee::getName, Collectors.toSet())));`
- D. `.collect(Collectors.partitioningBy(y, Collectors.groupingBy(`
`Employee::getName, Collectors.toCollection(TreeSet::new))));`



- A. Option A
- B. Option B
- C. Option C
- D. Option D

Correct Answer: B

QUESTION 5

Given:

```
enum Color implements Serializable {  
    R(1), G(2), B(3);  
    int c;  
    public Color(int c) {  
        this.c = c;  
    }  
}
```

What action ensures successful compilation?

- A. Replace public Color(int c) with private Color(int c).
- B. Replace int c; with private int c;.
- C. Replace int c; with private final int c;.
- D. Replace enum Color implements Serializable with public enum Color.
- E. Replace enum Color with public enum Color.

Correct Answer: A

```
1  
2 import java.io.*;  
3 import java.util.*;  
4 class Hello {  
5  
6  
7     enum Color implements Serializable {  
8         R(1), G(2), B(3);  
9         int c;  
10        private Color (int c) {  
11            this.c = c;  
12        }  
13    }  
14 }
```



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