



1Z0-811^{Q&As}

Java Foundations

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QUESTION 1

Given: Which statement, when inserted at line n1, enables the Course class to compile?

```
public class Course {  
    public static void main (String [] args) {  
        double courseFee = 1000.0;  
        float percentage = 5.0f;  
        // line n1  
        newFee = courseFee * percentage;  
        System.out.println (newFee);  
    }  
}
```

- A. int newFee;
- B. double newFee;
- C. long newFee;
- D. float newFee;

Correct Answer: B

QUESTION 2

Given the code fragment:

```
int a = 10;  
int b = 20;  
int c = 30;  
System.out.println (a++ > 10 || ++b <= 21);  
System.out.println (a > 10 && ++b <= 22);  
System.out.println (a <= 11 && b == 22);  
System.out.println (c++ == 31 && a++ == 11 || b++ == 22);
```

What is the result?

- A. false false false false
- B. true false false false
- C. true true true true
- D. true true true false

Correct Answer: C

**QUESTION 3**

Given:

```
public static void main(String[] args) {
    int iterations = 100;

    while (count < iterations) {
        System.out.println("Iteration " + count);
        count++;
    }
}
```

What is the result?

- A. The program compiles and nothing is printed.
- B. Iteration plus an increasing number is printed 100 times.
- C. Iteration plus an increasing number is printed 99 times.
- D. An error occurs during compilation.

Correct Answer: D

QUESTION 4

Given:

```
public class Student {
    String sName;
    char grade;
    public static void main (String[] args) {
        Student s = new Student ();
        System.out.println ("[" + s.sName + ":" + s.grade + "]" );
    }
}
```

What is the result?

- A. [null:-]
- B. [:]
- C. [null:null]



D. [:null]

Correct Answer: A

```
1 import java.util.*;
2 import java.io.*;
3 import java.lang.Thread;
4 import java.util.ArrayList;
5 import java.util.LinkedList;
6 import java.util.List;
7 import java.util.function.Consumer;
8 import java.util.stream.Stream;
9 import java.util.stream.IntStream;
10 import java.util.Optional;
11 import java.util.Scanner;
12
13
14 public class Student {
15     String sName;
16     char grade;
17     public static void main (String[] args) {
18         Student s = new Student ();
19         System.out.println ("[" + s.sName + ":" + s.grade + "]");
20     }
21 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

Int

CommandLine Arguments



Result

CPU Time: 0.24 sec(s), Memory: 34964 kilobyte(s)

```
[null: -]
```

QUESTION 5

Given the code fragment:



```
List<String> items = new ArrayList<> ();  
items.add(1, "pen");  
items.add(2, "pencil");  
items.add(3, "erasers");  
items.add("paper");  
for (String x : items) {  
    System.out.print (x + " ");  
}
```

What is the result?

- A. pen pencil erasers paper
- B. paper pen pencil erasers
- C. A compilation error occurs.
- D. A runtime exception is thrown.

Correct Answer: D

Result

CPU Time: 0.28 sec(s), Memory: 30508 kilobyte(s)

```
Exception in thread "main" java.lang.IndexOutOfBoundsException: Index: 1, Size: 0  
at java.base/java.util.ArrayList.rangeCheckForAdd(ArrayList.java:787)  
at java.base/java.util.ArrayList.add(ArrayList.java:512)  
at App.main(App.java:19)
```

QUESTION 6

Given the code fragment:

```
public static void main (String[] args) {  
    double num = -25.67;  
    System.out.println (Math.abs (num));  
}
```

What is the result?

- A. 25.67



B. 25.00

C. 25.7

D. 26

Correct Answer: A

```
15 public class Test {  
16     public static void main (String[] args) {  
17         double num = -25.67;  
18         System.out.println (Math.abs (num));  
19     }  
20 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments

Result

CPU Time: 0.18 sec(s), Memory: 31672 kilobyte(s)

25.67

QUESTION 7

Given the code fragment: What is the result?



```
List<String> names = new ArrayList<>();  
names.add ("Joel");  
names.add ("Paul");  
names.remove (0);  
names.remove (0);  
System.out.println (names.isEmpty());  
names.add ("Joel");  
names.add ("Paul");  
names.clear();  
System.out.println (names.isEmpty ());
```

- A. false true
- B. true true
- C. false false
- D. A runtime exception is thrown

Correct Answer: B

QUESTION 8

Given:

```
public class TestFinal {  
    final int l = 5;  
    static void modify (TestFinal test) {  
        test.l = 99;  
    }  
    public static void main (String [] args) {  
        final TestFinal tf = new TestFinal ();  
        modify (tf);  
        System.out.println (tf.l);  
    }  
}
```

What is the result?

- A. A compilation error occurs in the modify method.
- B. 99
- C. 5



D. A compilation error occurs in the main method.

Correct Answer: D

QUESTION 9

Given the code fragment:

```
String digits = "0123456789";
System.out.println(
    digits.substring(
        digits.indexOf ("4"), digits.indexOf ("8")).concat ("89"));
```

What is the result?

- A. 456789
- B. 4567889
- C. 45678
- D. 3456789

Correct Answer: A

QUESTION 10



```
13  
14 public class Test {  
15     public static void main (String[] args) {  
16         int num = 100;  
17         int count = 0;  
18         do {  
19             num--;  
20             count++;  
21         } while (count > 1);  
22         System.out.println ("num = " + num);  
23     }  
24 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments

Result

CPU Time: 0.26 sec(s), Memory: 34272 kilobyte(s)

```
num = 99
```

Which method identifier is correct according to Java naming conventions?

- A. BillCalculator
- B. calculateBill
- C. calculatebill
- D. Calculator

Correct Answer: D

QUESTION 11

Given the code fragment:



```
class Ball {  
    double weight;  
}  
public class App {  
    public static void main(String[] args) {  
        //line n1  
        System.out.println(b.weight);  
    }  
}
```

Which code fragment can be inserted at line n1 to enable the code to print 0.0?

- A. Ball b = null;
- B. weight = 0.0;
- C. Ball.weight = 0.0;
- D. Ball b = new Ball(0.0);
- E. Ball b = new Ball();

Correct Answer: D

```
Console 1 * Console 2 * Console 3 *  
0.0  
Completed with exit code: 0
```

QUESTION 12



```
13 public class App {  
14     public static void main (String[] args) {  
15         String s= "Hello Java";  
16         System.out.println (s.length());  
17         s.concat ("SE8");  
18         System.out.println (s.length ());  
19     }  
20 }  
21 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments

Result

CPU Time: 0.14 sec(s), Memory: 30272 kilobyte(s)

```
10  
10
```

Given the code fragment:

```
public static void main(String[] args) {  
    int[] arr = {10, 0};  
    int i = 0;  
    try {  
        int answer = arr[i] / arr[i + 1];  
    } catch (Exception e) {  
        System.out.println("Unknown issues.");  
    } catch (ArithmeticException ae) {  
        System.out.println("Invalid divisor.");  
    }  
}
```

What is the result?

A. Unknown issues. Invalid divisor.



- B. Unknown issues.
- C. Invalid divisor.
- D. A compilation error occurs.

Correct Answer: D

```
13 public class App {
14     public static void main (String[] args) {
15         int[] arr = {10, 0};
16         int i = 0;
17         try {
18             int answer = arr[i] / arr[i + 1];
19         } catch (Exception e) {
20             System.out.println("Unknown issues.");
21         }
22         } catch (ArithmeticException ae) {
23             System.out.println("Invalid divisor.");
24         }
25     }
26 }
27 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4 Interactiv

CommandLine Arguments

result

PU Time: sec(s), Memory: kilobyte(s)

```
/App.java:22: error: exception ArithmeticException has already been caught
    } catch (ArithmeticException ae) {
    ^
1 error
```

QUESTION 13

Given:



```
class Product {  
    String color = null;  
    Product (Product p) {  
        this.color = p.color;  
    }  
}
```

And the code fragment:

```
Product p1 = new Product ();           // line n1  
p1.color = "White";  
Product p2 = new Product (p1);  
System.out.println (p1.color + " : " + p2.color);
```

What is the result?

- A. A compilation error occurs at line n1.
- B. White : null
- C. null: null
- D. White : White

Correct Answer: C

QUESTION 14

You have been asked to develop a Java program that prints the elements of an array in reverse order.

Which looping statement cannot be used to meet the requirement?

- A. enhanced for
- B. standard for
- C. while
- D. do-while

Correct Answer: D

Reference: <https://www.javatpoint.com/java-program-to-print-the-elements-of-an-array-in-reverse-order>

QUESTION 15

Given the code fragment:



```
class Course {
    String name;
    static int count = 0;
    Course(String name) {
        this.name = name;
        count++;
    }
}
public class App {
    public static void main(String[] args) {
        Course c = new Course("Java Programming");
        // line n1
    }
}
```

Which code fragment, when inserted at line n1, enables the code to print Java Programming:1?

- A. System.out.println(name + ":" + count);
- B. System.out.println(c.name + ":" + count);
- C. System.out.println(c.name + ":" + Course.count);
- D. System.out.println(Course.name + ":" + c.count);

Correct Answer: C

