



1Z0-811^{Q&As}

Java Foundations

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**QUESTION 1**

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 2**

Given the code fragment:

```
public static void main(String[] args) {  
    String name = "Rita";  
    int age = 14;  
    /* line n1 */  
}
```

Which code fragment, when inserted at line n1, enables it to print Rita is 14 years old?

- A. `System.out.println("%s is %d years old" +name+age);`
- B. `System.out.println("%s is %n years old" name, age);`
- C. `System.out.printf("%s is %d years old", name, age);`
- D. `System.out.printf("%s is %n years old", name, age);`

Correct Answer: C

```
13  
14 public class Course {  
15     public static void main (String[] args) {  
16         String name = "Rita";  
17         int age = 14;  
18         System.out.printf("%s is %d years old", name, age);  
19     }  
20 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments

Result

CPU Time: 0.17 sec(s), Memory: 31916 kilobyte(s)

Rita is 14 years old

**QUESTION 3**

Given:

```
class Bus {
    String type = "default";
    // line n1
    Bus (String type) {
        // line n2
        this.type = type;
    }
}

public class App{
    public static void main(String[] args) {
        Bus b1 = new Bus ();
        System.out.println(b1.type);
        Bus b2 = new Bus ("luxury");
        System.out.println (b2.type);
    }
}
```

What is the result?

- A. The code fails to compile. To make it compile, at line n1 insert: this () {}
- B. The code fails to compile. To make it compile, at line n2 insert: this ();
- C. The code fails to compile. To make it compile, at line n1 insert: Bus () {}
- D. The code compiles and prints: default

luxury

Correct Answer: C



```
13
14 class Bus {
15     String type = "default";
16     Bus () { }
17     Bus (String type) {
18         // line n2|
19         this.type = type;
20     }
21 }
22
```

Console 4

Console 5

Console 6

default
luxury

Completed with exit code: 0

QUESTION 4

Given:

```
class Messenger {
    String msg;
    Messenger(String msg) {this.msg = msg;}
    public void writeMsg() {
        System.out.println(msg);
    }
    public void readMsg () {
        // line n1
    }
}
```

And the code fragment:

```
Messenger m = new Messenger ("All the best");
m.readMsg();
```

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

- A. void writeMsg();
- B. Messenger.writeMsg();
- C. writeMsg();



D. m.writeMsg();

Correct Answer: B

QUESTION 5

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 6

Given these class definitions:

```
class MyClassA { }

public class MyClassB { }

class MyClassC extends Object { }

class MyClassD {
    public static void main (String [] args) { }
}
```

Which class or classes compile?

- A. only MyClassB, MyClassC, and MyClassD



- B. only MyClassB
- C. MyClassA, MyClassB, MyClassC, and MyClassD
- D. only MyClassB and MyClassD

Correct Answer: D

QUESTION 7

Which two components can class declarations include?

- A. A list of instance methods
- B. The main method
- C. Interfaces implemented by the class
- D. The public modifier

Correct Answer: CD

Reference: <https://docs.oracle.com/javase/tutorial/java/javaOO/classdecl.html>

QUESTION 8

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 9

You have a microprocessor board, such as Raspberry PI, wired to control a drone.

Which edition of Java is geared towards use of simple, closed systems with constrained memory requirements, such as a microprocessor board?

- A. Java Micro Edition
- B. Java Standard Edition with a Compact Profile
- C. Java Enterprise Edition
- D. Java SE Embedded

Correct Answer: D

Reference: <https://www.oracle.com/technical-resources/articles/java/raspberrypi.html>

QUESTION 10

Which two Java reserved words are used to implement encapsulation?

- A. final
- B. static
- C. public
- D. extends
- E. private

Correct Answer: CE

Reference: <https://learn.saylor.org/mod/page/view.php?id=22044>

QUESTION 11



```
13
14 - public class calc {
15 -     public static void main (String[] args) {
16         int a = 10;
17         int b = 20;
18         int c = 30;
19         System.out.println (a++ > 10 || ++b <= 21);
20         System.out.println (a > 10 && ++b <= 22);
21         System.out.println (a <= 11 && b == 22);
22         System.out.println (c++ == 31 && a++ == 11 || b++ == 22);
23     }
24 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

Inter

CommandLine Arguments



Result

CPU Time: 0.15 sec(s), Memory: 30232 kilobyte(s)

```
true
true
true
true
```

Identify two valid data types for the operands of the addition (+) operator?

- A. string
- B. boolean
- C. numeric
- D. array

Correct Answer: AD

Reference: <https://www.iitk.ac.in/esc101/05Aug/tutorial/java/nutsandbolts/arithmetic.html>

QUESTION 12

Given the code fragment: What is the result?



```
String flavors[] = {"Vanilla", "Chocolate"};
int choice = 2;
switch(choice) {
    case 1:
        System.out.println("Selected " + flavors[1] + " flavor.");
        break;
    case 2:
        System.out.println("Selected " + flavors[2] + " flavor.");
        break;
    default:
        System.out.println("Thank you!");
}
```

- A. Selected null flavor.
- B. Selected Chocolate flavor.
- C. An `ArrayIndexOutOfBoundsException` is thrown at run time.
- D. Selected Chocolate flavor. Thank you!

Correct Answer: C



```
13 public class App {
14     public static void main (String[] args) {
15         String flavors[] = {"Vanilla", "Chocolate"};
16         int choice = 2;
17         switch(choice) {
18             case 1:
19                 System.out.println("Selected " + flavors[1] + " flavor. ");
20                 break;
21             case 2:
22                 System.out.println("Selected " + flavors[2] + " flavor. ");
23                 break;
24             default:
25                 System.out.println("Thank you!");
26         }
27     }
28 }
29 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4 Interactive Stdin Inputs

CommandLine Arguments

Result

CPU Time: 0.14 sec(s), Memory: 30980 kilobyte(s)

```
Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: Index 2 out of bounds for length 2
at App.main(App.java:22)
```

QUESTION 13

Which statement is valid?

- A. int totalScore = 0;
- B. int total-score = 0;
- C. int totalScore2 = 0;
- D. int total score = 0;

Correct Answer: A

Reference: <https://liveexample.pearsoncmg.com/html/TotalScore.html>

QUESTION 14



Given the code fragment:

```
int num[] = new int[3];  
num[1] = 10;  
num[2] = 15;  
List<Integer> lst = new ArrayList<> (3);  
lst.add(10);  
lst.add(15);  
System.out.println (num);  
System.out.println (lst);
```

What is the result?

- A. a memory address1 in hexadecimal number format a memory address2 in hexadecimal number format
- B. 10, 15 [10, 15]
- C. 0, 10, 15 [10, 15, null]
- D. a memory address in hexadecimal number format [10, 15]

Correct Answer: D



```
15 public class Test {
16     public static void main (String[] args) {
17         int num[] = new int[3];
18         num[1] = 10;
19         num[2] = 15;
20         List<Integer> lst = new ArrayList<> (3);
21         lst.add(10);
22         lst.add(15);
23         System.out.println (num);
24         System.out.println (lst);
25     }
26 }
27 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments

Result

CPU Time: 0.12 sec(s), Memory: 30428 kilobyte(s)

```
[I@6a6824be
[10, 15]
```

QUESTION 15

Which package would you import to use the Random class?

- A. java.io
- B. java.math
- C. java.util
- D. java.lang

Correct Answer: C

Reference: <https://www.educative.io/edpresso/how-to-generate-random-numbers-in-java>

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