

1Z0-811^{Q&As}

Java Foundations

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QUESTION 1

Which two statements are true about the Java Runtime Environment (JRE)?

- A. It is responsible for garbage collection.
- B. It interprets bytecode stored in a .class file.
- C. It contains the JDK and Java APIs.
- D. It is platform independent.
- E. You must install the JRE to compile a .java file.

Correct Answer: BD

Reference: https://en.wikipedia.org/wiki/Java_virtual_machine

QUESTION 2

Given: What is the result?

```
public class Test {
    static int var2 = 200;
    public static void print () {
        System.out.println (var2);
    }
    public void print(int var1) {           // line n1
        System.out.println(var1);
        var2 = var2 + var1;                // line n2
        print ();
    }
    public static void main(String[] args) {
        Test obj = new Test();
        obj.print(100);
    }
}
```

- A. 100
- B. A compilation error occurs at line n2.
- C. A compilation error occurs at line n1.
- D. 100

Correct Answer: D

```
12
13 - public class Test {
14     static int var2 = 200;
15 - public static void print () {
16     | System.out.println (var2);
17     }
18 - public void print(int var1) { //line n1
19     System.out.println(var1);
20     var2 = var2 = var1; //line n2
21     print ();
22     }
23 - public static void main(String[] args) {
24     | Test obj = new Test();
25     | obj.print(100);
26     }
27
28 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments

Result

CPU Time: 0.12 sec(s), Memory: 30616 kilobyte(s)

```
100
100
```

QUESTION 3

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 4

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 5

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 6

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 7

Given the code fragment:

```
boolean checkOut = true;  
int days = 0;  
while (checkOut) {  
    days++;  
    if (days > 3) {  
        checkOut = false;  
    }  
}  
System.out.print(days);
```

What is the result?

- A. 2
- B. 4
- C. The program executes an infinite number of times.
- D. 3

Correct Answer: B

QUESTION 8

Identify two features of Java.

- A. architecture dependent
- B. platform independent
- C. single threaded
- D. robust

Correct Answer: BD

Reference: <https://www.javatpoint.com/features-of-java>

QUESTION 9

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 10

Given:

```
public class App{
    int num;
    public int add(int x) {
        num = num + x;
        return num;
    }
    public void add(int x) {
        num = num + x;
    }
    public static void main(String[] args) {
        App obj = new App();
        obj.add (100);
        int ans = obj.add(100);
        System.out.println(obj.num);
    }
}
```

What is the result?

- A. 300
- B. 100
- C. 200
- D. A compilation error occurs.

Correct Answer: D

```
12
13 public class App {
14     int num;
15     public int add(int x) {
16         num = num + x;
17         return num;
18     }
19     public void add(int x) {
20         num = num + x;
21     }
22     public static void main (String[] args) {
23         App obj = new App();
24         obj.add (100);
25         int ans = obj.add(100);
26         System.out.println(obj.num);
27     }
28 }
29
```

✖ method add(int) is already defined in class App

QUESTION 11

Given:

```
String test = "a";
for (; test.compareTo ("aaa") == 0; test = test + "a")
    System.out.print (test.length () + " ");
System.out.print (test);
```

What is the output?

- A. 1 2 3 aaaa
- B. 1 2 aaa
- C. Compilation fails
- D. a

Correct Answer: D

```
16 public class Test {  
17     public static void main (String[] args) {  
18         String test = "a";  
19         for (; test.compareTo ("aaa") == 0; test = test + "a")  
20             System.out.println (test.length () + "");  
21         System.out.println (test);  
22     }  
23 }  
24 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments



Result

CPU Time: 0.13 sec(s), Memory: 30140 kilobyte(s)

a

QUESTION 12

```

13
14 public class Test {
15     public static void main (String[] args) {
16         int value = 10;
17         int a = ++value;
18         int b = value;
19         int c = value++;
20         if (a <= b && a <= c) {
21             if (b <= c) {
22                 a = ++b;
23             } else {
24                 a = ++c;
25             }
26         }
27         System.out.println(a);
28     }
29 }

```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments

Result

CPU Time: 0.16 sec(s), Memory: 30296 kilobyte(s)

12

Given the code fragment:

```

String inputFromConsole = " betaTEST ";
String cleanedInput;
cleanedInput = inputFromConsole.toUpperCase();
cleanedInput = cleanedInput.trim();
System.out.println("[ " + cleanedInput + " ]");

```

What is the result?

- A. [BETATEST]
- B. [betaTest]
- C. [betaTest]

D. [BETATEST]

Correct Answer: D

```
13  
14 public class Test {  
15     public static void main (String[] args) {  
16         String inputFromConsole = " betaTEST ";  
17         String cleanedInput;  
18         cleanedInput = inputFromConsole.toUpperCase();  
19         cleanedInput = cleanedInput.trim();  
20         System.out.println "[" + cleanedInput + "];  
21     }  
22 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments

Result

CPU Time: 0.19 sec(s), Memory: 32340 kilobyte(s)

[BETATEST]

QUESTION 13

Given the code fragment:

```
int count = 0;  
while (count <= 10) {  
    System.out.print (count | " ");  
    /* line n1 */  
}
```

Which statement, when inserted at line n1, enables the code to print 0 2 4 6 8 10?

- A. count = (count++) +1;
- B. count = count++;

C. count += 2;

D. count += 2;

Correct Answer: D

QUESTION 14

Given the code fragment:

```
List<String> names = new ArrayList<> ();  
names.add("Julia");  
names.add("Peter");  
for (Iterator<String> itr = names.iterator (); itr.hasNext();) {  
    System.out.println(itr.next());  
}
```

What is the result?

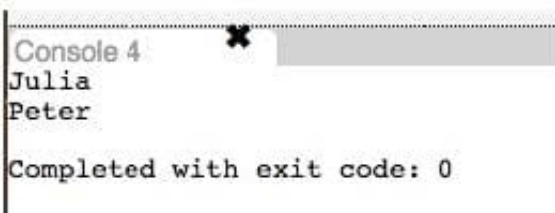
A. A compilation error occurs.

B. A runtime exception is thrown.

C. Julia Peter

D. Peter Julia

Correct Answer: C



```
Console 4  
Julia  
Peter  
Completed with exit code: 0
```

QUESTION 15

Given:

```
1. class Test {  
2.     /* comment text 1 */  
3.     // comment text 2 //  
4.     // comment text 3  
5.     and comment text 4 //  
6.     /* comment text 5  
7.     and comment text 6 */  
8. }
```

At which line does a compilation error occur?

- A. line 5
- B. line 2
- C. line 3
- D. line 7

Correct Answer: A

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