

1Z0-811^{Q&As}

Java Foundations

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QUESTION 1

Given: Which statement is true about the main method?

```
public class App {  
    public static void main (String[] args) {  
        System.out.println ("Hello Java!");  
    }  
}
```

- A. It can be a non-static method.
- B. Its parameter can be of type Integer [].
- C. It cannot be defined in a non-public class.
- D. It cannot be invoked by its name.

Correct Answer: D

QUESTION 2

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 3

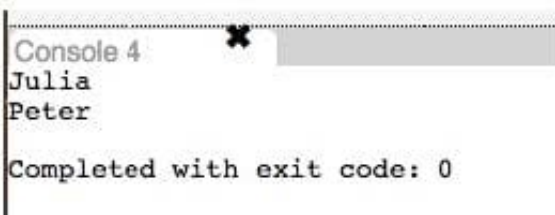
Given the code fragment:

```
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 4

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);
    }
}
```

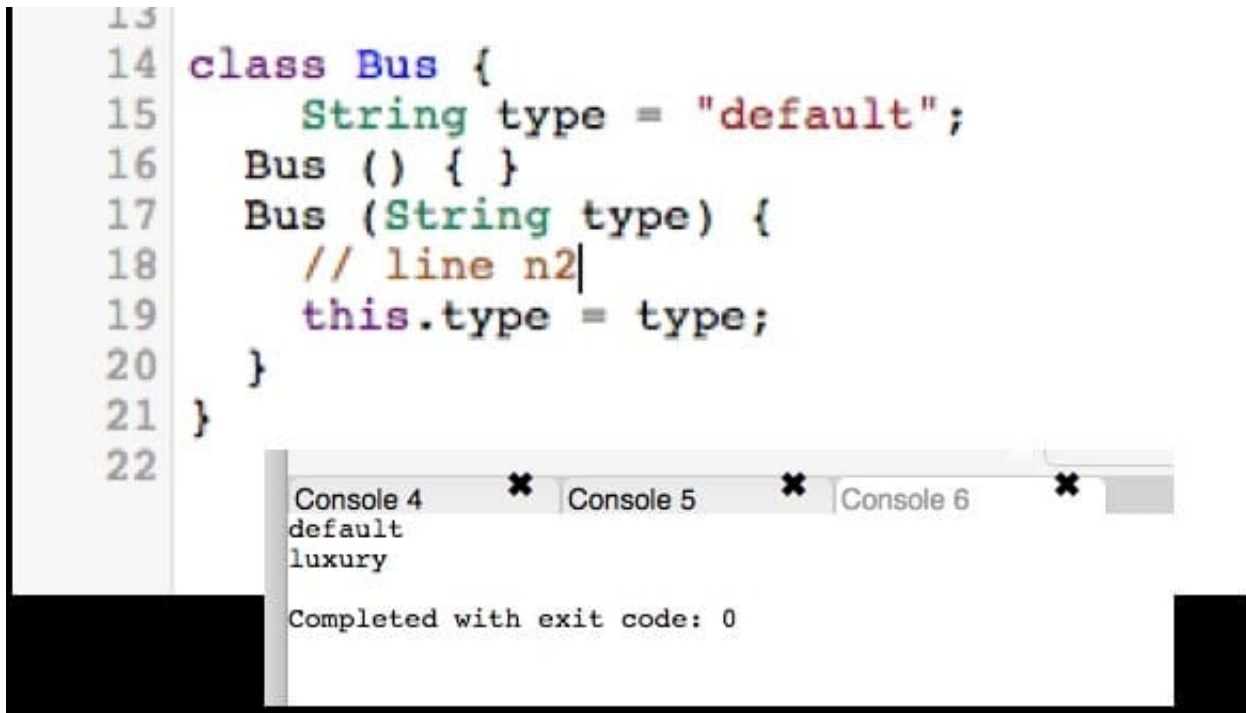
What is the result?

- 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
```



The screenshot shows a Java IDE with a code editor on the left and a console window on the right. The code editor contains the following Java code:

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

The console window shows the output of the program:

```
Console 4 * Console 5 * Console 6 *
default
luxury
Completed with exit code: 0
```

QUESTION 5

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 6

Which statement is true about a Java method?

- A. It must be declared with an access modifier.
- B. It cannot be defined within another method.
- C. It must accept a parameter and return a value.
- D. It cannot be defined as static final.

Correct Answer: B

Reference: <https://www.quora.com/Can-we-define-a-function-within-another-function-in-Java>

QUESTION 7

Identify three features of the Java programming language.

- A. distributed
- B. direct memory management
- C. multithreaded
- D. strongly typed
- E. dynamically typed

Correct Answer: ACE

Reference: <https://www.tutorialspoint.com/What-are-the-major-features-of-Java-programming>

QUESTION 8

Given the code fragment:

```
//line n1
public class App {
    public static void main(String[] args) {
        List<Double> nums = new ArrayList<>();
        nums.add(Math.PI) ;
        nums.add(new Random().nextDouble());
    }
}
```

Which statement is true?

- A. The code results in a compilation error. To make it compile, insert at line n1: import java.lang.Math; import java.lang.Random;
- B. The code compiles successfully
- C. The code results in a compilation error. To make it compile, insert at line n1: import java.lang; import java.util;
- D. The code results in a compilation error. To make it compile, insert at line n1: import java.util.*;

Correct Answer: B

```
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
12
13
14 public class App {
15     public static void main (String[] args) {
16
17         List<Double> nums = new ArrayList<> ();
18         nums.add(Math.PI) ;
19         nums.add(new Random().nextDouble());
20     }
21
22 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments

Result

CPU Time: 0.14 sec(s), Memory: 30600 kilobyte(s)



QUESTION 9

Given the classes:

Apple.java:

```
package fruits;
class Apple {
    public void getApple () { }
}
```

Salad.java:

```
package food;
// line n1
class Salad {
    Apple apple = new Apple (); // line n2
    public void prepareSalad {
        apple.getApple ();
    }
}
```

Which two modifications, independently, enable the Salad.java file to compile?

- A. Replace line n1 with `import fruits.Apple.getApple();`
- B. Replace line n1 with `import fruits.Apple;`
- C. Replace line n1 with `import fruits;`
- D. Replace line n2 with `fruits.Apple apple = new Apple ();`
- E. Replace line n2 with `fruits.Apple apple = new fruits.Apple ();`

Correct Answer: AD

QUESTION 10

Given: What is the result?

```
public static void main (String[] args) {
    boolean value1 = 10 + 5 >= 2 + 13;
    int value2 = 0;
    if (value1 == true) {
        value2 = 5 * 3 + 10 / 2;
    } else {
        value2 = 5 / 3 + 10 * 2;
    }
    System.out.println (value2);
}
```

- A. 20
- B. 32
- C. A compilation error occurs.
- D. 21

Correct Answer: A

```
13
14 public class Test {
15     public static void main (String[] args) {
16         boolean value1 = 10 + 5 >= 2 + 13;
17         int value2 = 0;
18         if (value1 == true) {
19             value2 = 5 * 3 + 10 / 2;
20         } else {
21             value2 = 5 / 3 + 10 * 2;
22         }
23         System.out.println (value2);
24     }
25 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments

Result

CPU Time: 0.13 sec(s), Memory: 30344 kilobyte(s)

20

QUESTION 11

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 12

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 13

Given the code fragment: What is the result?

```
System.out.println(10 == 10 && ! (5 != 5));
System.out.println(10 < 8 || 10 > 2);
```

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

Correct Answer: A

```
13
14 public class Test {
15     public static void main (String[] args) {
16         System.out.println(10 == 10 && ! (5 !=5));
17         System.out.println(10 < 8 || 10 > 2);
18     }
19 }
```

Execute Mode, Version, Inputs & Arguments

JDK 11.0.4

CommandLine Arguments

Result

CPU Time: 0.14 sec(s), Memory: 30944 kilobyte(s)

```
true
true
```

QUESTION 14

```
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

 Execu

result

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

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

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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