

# 98-388<sup>Q&As</sup>

Introduction to Programming Using Java

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**QUESTION 1**

**HOTSPOT**

You are interviewing for a job as a Java developer. You need to evaluate the following code. Line numbers are included for reference only.

```
01 String s1 = "Hello world";  
02 String s2 = "Hello world";  
03 String s3 = s2;  
04  
05
```

For each of the following statements, select Yes if the statement is true. Otherwise, select No. NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

	<b>Yes</b>	<b>No</b>
s1 and s2 refer to the same object in memory.	<input type="checkbox"/>	<input type="checkbox"/>
s2 and s3 refer to the same object in memory.	<input type="checkbox"/>	<input type="checkbox"/>
A different string can be assigned to s1 on line 04.	<input type="checkbox"/>	<input type="checkbox"/>
A different string can be assigned to s2 on line 05.	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:

**Answer Area**

	<b>Yes</b>	<b>No</b>
s1 and s2 refer to the same object in memory.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
s2 and s3 refer to the same object in memory.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
A different string can be assigned to s1 on line 04.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
A different string can be assigned to s2 on line 05.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

References: [https://www.tutorialspoint.com/java/java\\_strings.htm](https://www.tutorialspoint.com/java/java_strings.htm)

**QUESTION 2**

**HOTSPOT**

You are writing a Java program.

The program must meet the following requirements:

Truncate firstName to its first five characters

Set output to a string that contains the firstName and the number of characters in firstName

How should you complete the code? To answer, select the appropriate code segments in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

```
public static void main(String[] args)
{
    String firstName = "Christopher";
    firstName = firstName. 
    String output = String.format("  is  characters long", firstName, firstName.  );
    System.out.println(output);
}
```

Dropdown menus for the first blank contain: substring(0,5);, substring(5);, subSequence(5,0);

Dropdown menus for the second blank contain: %n, %d, %s

Dropdown menus for the third blank contain: %d, %f, %c

Dropdown menu for the fourth blank contains: length(), chars(), codePointCount()

Correct Answer:

**Answer Area**

```
public static void main(String[] args)
{
    String firstName = "Christopher";
    firstName = firstName. 
    String output = String.format("  is  characters long", firstName, firstName.  );
    System.out.println(output);
}
```

Dropdown menus for the first blank contain: substring(0,5);, substring(5);, subSequence(5,0);

Dropdown menus for the second blank contain: %n, %d, %s

Dropdown menus for the third blank contain: %d, %f, %c

Dropdown menu for the fourth blank contains: length(), chars(), codePointCount()

References: <https://docs.oracle.com/javase/7/docs/api/java/lang/StringBuilder.html>  
[https://www.tutorialspoint.com/java/lang/stringbuilder\\_substring\\_end.htm](https://www.tutorialspoint.com/java/lang/stringbuilder_substring_end.htm)

**QUESTION 3**

You work as a Java programmer.

You need to convert a numeric String to a primitive double value.

What code segment should you use?

- A. `Double.valueOf(numberString);`
- B. `double.parseDouble(numberString);`
- C. `String.parseDouble(numberString);`
- D. `Double.parseDouble(numberString);`

Correct Answer: B

References: <https://www.javacodeexamples.com/convert-string-to-primitive-example/140>

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#### QUESTION 4

##### HOTSPOT

You need to evaluate the following code. Line numbers are included for reference only.

```
01 public static void main(String[] args) {
02     int anum = 55;
03     for (int cnt = 0; cnt < 10; cnt++) {
04         add(anum);
05     }
06     System.out.println(anum);
07 }
08
09 public static void add(int anum) {
10     anum++;
11 }
```

Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code. NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

Which statement describes the value of `anum` at line 05?

- When `cnt` is 9, the value of `anum` is 55.
- When `cnt` is 9, the value of `anum` is 56.
- When `cnt` is 9, the value of `anum` is 64.
- When `cnt` is 9, the value of `anum` is 65.

Which statement describes the value of `anum` at line 11?

- When `cnt` is 7, the value of `anum` is 55.
- When `cnt` is 7, the value of `anum` is 56.
- When `cnt` is 7, the value of `anum` is 62.
- When `cnt` is 7, the value of `anum` is 63.

Which statement describes the value of `cnt` at line 06?

- The value of `cnt` is 10.
- The value of `cnt` is 11.
- The variable `cnt` is out of scope.

Correct Answer:

**Answer Area**

Which statement describes the value of `anum` at line 05?

- When `cnt` is 9, the value of `anum` is 55.
- When `cnt` is 9, the value of `anum` is 56.
- When `cnt` is 9, the value of `anum` is 64.
- When `cnt` is 9, the value of `anum` is 65.

Which statement describes the value of `anum` at line 11?

- When `cnt` is 7, the value of `anum` is 55.
- When `cnt` is 7, the value of `anum` is 56.
- When `cnt` is 7, the value of `anum` is 62.
- When `cnt` is 7, the value of `anum` is 63.

Which statement describes the value of `cnt` at line 06?

- The value of `cnt` is 10.
- The value of `cnt` is 11.
- The variable `cnt` is out of scope.

**QUESTION 5**

**DRAG DROP**

You are writing a Java method that evaluates an arithmetic formula.

The method accepts an `int` value named `number`, raises the value to the second power, and returns the negative value of the result.

How should you complete the code? To answer, drag the appropriate code segment to the correct position. Each code segment may be used once, more than once, or not at all. You may need to drag the split bar between panes or scroll to

view content.

NOTE: Each correct selection is worth one point.

Select and Place:

**Code Segments**

-1	2
number	+
-	*
^	

**Answer Area**

```
public static int negativeSquare(int number) {  
    return [ ] ([ ] [ ] [ ] );  
};
```

Correct Answer:

**Code Segments**

-1	2
number	+
-	*
^	

**Answer Area**

```
public static int negativeSquare(int number) {  
    return - [ ] ( [ ] [ ] [ ] );  
};
```

**QUESTION 6**

HOTSPOT

You need to evaluate the following code. Line numbers are included for reference only.

```
01 public static int fee(char model) {  
02     int price = 0;  
03     switch (model) {  
04         case 'A':  
05             price = 50;  
06             break;  
07         case 'T':  
08             price = 20;  
09         case 'C':  
10             price = 5;  
11             break;  
12         default:  
13             price = 100;  
14             break;  
15     }  
16     return price;  
17 }
```

Use the drop-down menus to select the answer choice that answers each question based on the information presented

in the code. NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

What is the return value when `mode1` has a value of 'A'?

	▼
5	
20	
50	
100	

What is the return value when `mode1` has a value of 'T'?

	▼
5	
20	
50	
100	

What is the return value when `mode1` has a value of 'c'?

	▼
5	
20	
50	
100	

What is the return value when `mode1` has any other value?

	▼
5	
20	
50	
100	

Correct Answer:

**Answer Area**

What is the return value when `mode1` has a value of 'A'?

	▼
5	
20	
50	
100	

What is the return value when `mode1` has a value of 'T'?

	▼
5	
20	
50	
100	

What is the return value when `mode1` has a value of 'c'?

	▼
5	
20	
50	
100	

What is the return value when `mode1` has any other value?

	▼
5	
20	
50	
100	

**QUESTION 7**

**HOTSPOT**

You are interviewing for a job as a Java developer.

You are presented with the following code. Line numbers are included for reference only.

```
01 char data1 = 65;  
02 System.out.println(data1);  
03  
04 long data2 = 65;  
05 System.out.println(data2);  
06  
07 float data3 = new Float("-65.0");  
08 System.out.println(data3);  
09  
10 short data4 = new Short("65.0");  
11 System.out.println(data4);
```

You need to evaluate what happens when the code runs.



Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code.

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

What happens when lines 01 and 02 are run?

	▼
The number 65 is displayed.	
The letter 'A' is displayed.	
An exception is thrown.	

What happens when lines 04 and 05 are run?

	▼
The number 65 is displayed.	
The number 65.0 is displayed.	
An exception is thrown.	

What happens when lines 07 and 08 are run?

	▼
The number -65 is displayed.	
The number -65.0 is displayed.	
An exception is thrown.	

What happens when lines 10 and 11 are run?

	▼
The number 65 is displayed.	
The number 65.0 is displayed.	
An exception is thrown.	

Correct Answer:

**Answer Area**

What happens when lines 01 and 02 are run?

	▼
The number 65 is displayed.	
The letter 'A' is displayed.	
An exception is thrown.	

What happens when lines 04 and 05 are run?

	▼
The number 65 is displayed.	
The number 65.0 is displayed.	
An exception is thrown.	

What happens when lines 07 and 08 are run?

	▼
The number -65 is displayed.	
The number -65.0 is displayed.	
An exception is thrown.	

What happens when lines 10 and 11 are run?

	▼
The number 65 is displayed.	
The number 65.0 is displayed.	
An exception is thrown.	

**QUESTION 8**

HOTSPOT

You are developing a Java program to play Tic-Tac-Toe. You define the following array to store the state of the board: Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code. NOTE: Each correct selection is worth one point.

```
char[][] grid = {  
    {'-', '-', 'X'},  
    {'-', '-', '-'},  
    {'-', 'O', '-'}  
};
```

Hot Area:

**Answer Area**

Which array element contains an "x"?

	▼
grid[0][2]	
grid[1][3]	
grid[2][0]	
grid[3][1]	

Which array element contains an "o"?

	▼
grid[1][2]	
grid[2][1]	
grid[2][3]	
grid[3][2]	

Correct Answer:

**Answer Area**

Which array element contains an "x"?

	▼
grid[0][2]	
grid[1][3]	
grid[2][0]	
grid[3][1]	

Which array element contains an "o"?

	▼
grid[1][2]	
grid[2][1]	
grid[2][3]	
grid[3][2]	

**QUESTION 9**

**HOTSPOT**

You are writing a Java console program. The program accepts command line arguments.

You need to ensure that the main method parses and handles each command line argument.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

```
public static void main(  args)
{
    for (int i = 0; i <  ; i++)
    {
        handleArgument(  );
    }
}
```

Correct Answer:

**Answer Area**

```
public static void main(  args)
{
    for (int i = 0; i <  ; i++)
    {
        handleArgument(  );
    }
}
```

- 
- ArrayList
- String
- String[]**

- 
- args[i]**
- args[0]
- args.length
- args.length - 1
- args.length + 1

- 
- args[i]
- args[0]
- args.charAt(i)**

**QUESTION 10**

**HOTSPOT**

You are creating a Java console application.

You need to read a birthdate entered by the user.

How should you complete the code? To answer, select the appropriate code segments in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

**Answer Area**

```
import 
import 

public class DataReader
{
    public static String getBirthdate()
    {
        System.out.println("Enter your birthday in the format MMDDYYYY");

         ;
        

        String birthdate =  ;
        
        
        

         ;
        
        
        

        return birthdate;
    }
}
```

Correct Answer:

**Answer Area**

```
import 

|                   |
|-------------------|
| java.io.*         |
| java.util.Scanner |

  
public class DataReader  
{  
    public static String getBirthdate()  
    {  
        System.out.println("Enter your birthday in the format MMDDYYYY");  


|                                     |
|-------------------------------------|
| InputStream stream = System.in      |
| Scanner sc = new Scanner(System.in) |

;  
  
        String birthdate = 

|                |
|----------------|
| stream.read()  |
| sc.next()      |
| stream.mark(8) |
| sc.wait()      |

;  
  


|                |
|----------------|
| stream.close() |
| sc.close()     |
| stream.wait()  |
| sc.wait()      |

;  
  
        return birthdate;  
    }  
}
```

References: <https://docs.oracle.com/javase/7/docs/api/java/io/InputStreamReader.html>

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