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Introduction to Programming Using Java

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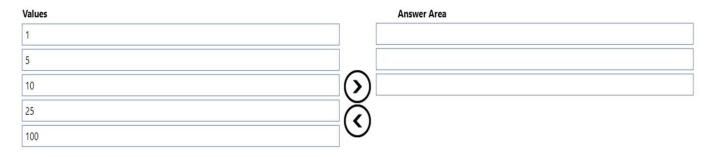
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QUESTION 1

DRAG DROP

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

```
01 public class JavaProgram1
02 {
03   int x = 25;
04
05   public static void main(String[] args)
06   {
07     JavaProgram1 app = new JavaProgram1();
08     {
09       int x = 5;
10     }
11     {
12       int x = 10;
13     }
14     int x = 100;
15     System.out.println(x);
16     System.out.println(app.x);
17   }
18   public JavaProgram1()
19   {
20     int x = 1;
21     System.out.println(x);
22   }
23 }
```

Which three values will be displayed in sequence? To answer, move the appropriate values from the list of values to the answer area and arrange them in the correct order. NOTE: Each correct selection is worth one point.

Select and Place:

Values		Answer Area
1		
5		
10	❯	
25	❮	
100		

Correct Answer:

Values		Answer Area	
		1	
5		100	
10	❯	25	
	❮		

QUESTION 2

You need to evaluate the following code segment:

```
double dNum = 2.667;
int iNum = 0;
iNum = (int)dNum;
```

What happens when the code segment is run?

A. iNum has a value of 0.

B. An exception is thrown.

C. iNum has a value of 2.

D. iNum has a value of 3.

Correct Answer: C

QUESTION 3

DRAG DROP

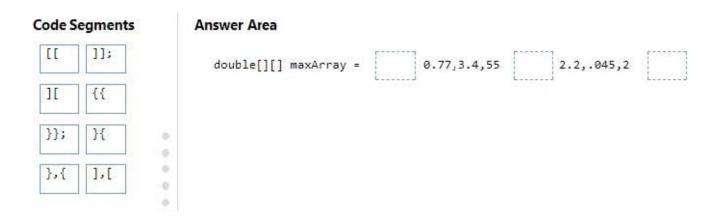You attend an interview for a job as a Java programmer.

You need to declare a two by three array of the double type with initial values.

How should you complete the code? To answer, drag the appropriate code segment to the correct location. 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
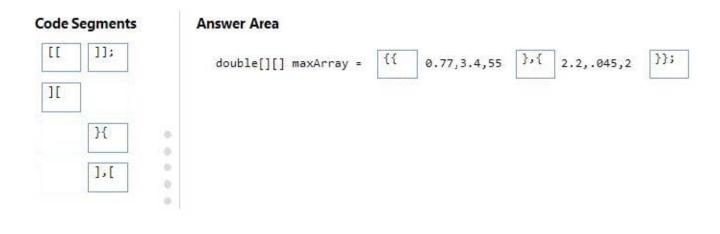
view content.

NOTE: Each correct selection is worth one point.

Select and Place:

Code Segments

[[	]];
][	{{
}};	}{
},{	],[

Answer Area

double[][] maxArray = [____] 0.77,3.4,55 [____] 2.2,.045,2 [____]

Correct Answer:

Code Segments

[[	]];
][	
	}{
	],[

Answer Area

double[][] maxArray = {{ 0.77,3.4,55 },{ 2.2,.045,2 }};
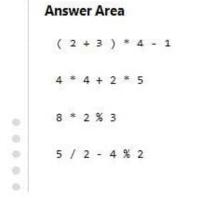

QUESTION 4

DRAG DROP

References: http://www.tutorialspoint.com/java/java_strings.htm

Your instructor asks you to evaluate four arithmetic code segments.

What is the value of each code segment? To answer, drag the appropriate value from the column on the left to its code segment on the right. Each data 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.
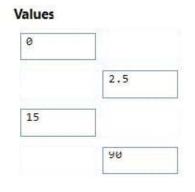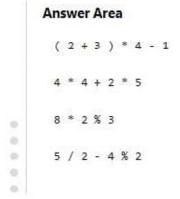
Select and Place:

Values

0	1
2	2.5
15	19
26	90

Answer Area

(2 + 3) * 4 - 1

4 * 4 + 2 * 5

8 * 2 % 3

5 / 2 - 4 % 2

Correct Answer:

Values

0	
	2.5
15	
	90

Answer Area

(2 + 3) * 4 - 1   19

4 * 4 + 2 * 5   26

8 * 2 % 3   1

5 / 2 - 4 % 2   2

QUESTION 5

HOTSPOT

You have the following code segment. Line numbers are included for reference only.

```
01 public class Customer
02 {
03     private int id = 3;
04     public static void main(String[] args)
05     {
06         Customer customer = new Customer();
07         id = 5;
08         showId();
09     }
10
11     protected void showId()
12     {
13         System.out.println(id);
14     }
15 }
```

The code does not compile.

For each of the following statements, select Yes if the action is required to resolve the compilation error. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
Change the access modifier of the variable id to public.	○	○
Change the access modifier of the showId method to public.	○	○
On lines 07 and 08, add the prefix customer. to id and showId().	○	○

Correct Answer:

Answer Area

	Yes	No
Change the access modifier of the variable id to public.	○	●
Change the access modifier of the showId method to public.	○	●
On lines 07 and 08, add the prefix customer. to id and showId().	●	○

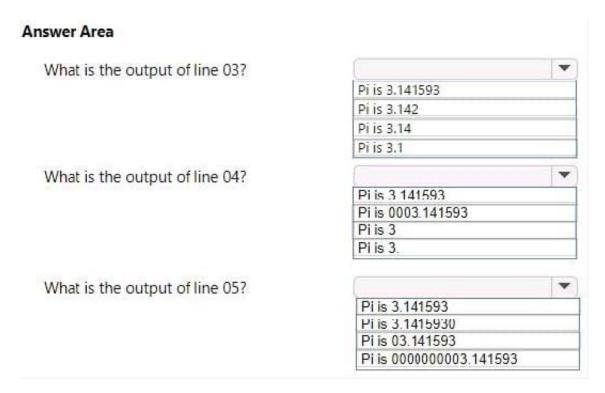References: https://docs.oracle.com/javase/tutorial/java/javaOO/accesscontrol.html

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QUESTION 6

HOTSPOT

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

```
01 public static void main(String[] args) {
02     double pi = Math.PI; //3.141593
03     System.out.format("Pi is %.3f%n", pi);
04     System.out.format("Pi is %.0f%n", pi);
05     System.out.format("Pi is %09f%n", pi);
06 }
```
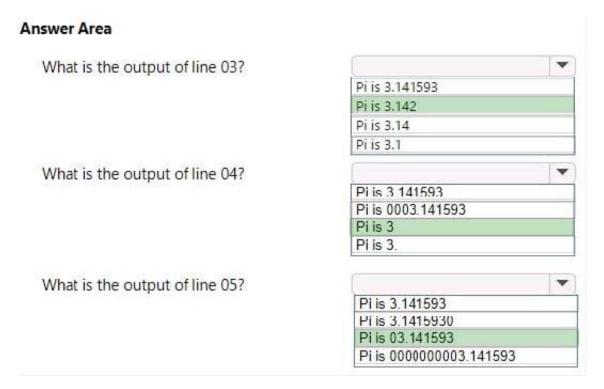
Use the drop-down menus to select the answer choice that answers each question based on the information presented in the code. NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

What is the output of line 03?

| Pi is 3.141593 |
| Pi is 3.142 |
| Pi is 3.14 |
| Pi is 3.1 |

What is the output of line 04?

| Pi is 3.141593 |
| Pi is 0003.141593 |
| Pi is 3 |
| Pi is 3. |

What is the output of line 05?

| Pi is 3.141593 |
| Pi is 3.1415930 |
| Pi is 03.141593 |
| Pi is 0000000003.141593 |

Correct Answer:

Answer Area

What is the output of line 03?

| Pi is 3.141593 |
| **Pi is 3.142** |
| Pi is 3.14 |
| Pi is 3.1 |

What is the output of line 04?

| Pi is 3.141593 |
| Pi is 0003.141593 |
| **Pi is 3** |
| Pi is 3. |

What is the output of line 05?

| Pi is 3.141593 |
| Pi is 3.1415930 |
| **Pi is 03.141593** |
| Pi is 0000000003.141593 |

References: https://docs.oracle.com/javase/tutorial/java/data/numberformat.html

QUESTION 7

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.              ▼
                    substring(0,5);
                    substring(5);
                    subSequence(5,0);

    String output = String.format("   ▼  is    ▼  characters long", firstName, firstName.   ▼  );
                                  %n      %d                                              length()
                                  %d      %f                                              chars()
                                  %s      %c                                              codePointCount()

    System.out.println(output);
}
```

Correct Answer:

Answer Area

```
public static void main(String[] args)
{
    String firstName = "Christopher";

    firstName = firstName.              ▼
                    substring(0,5);
                    substring(5);
                    subSequence(5,0);

    String output = String.format("   ▼  is    ▼  characters long", firstName, firstName.   ▼  );
                                  %n      %d                                              length()
                                  %d      %f                                              chars()
                                  %s      %c                                              codePointCount()

    System.out.println(output);
}
```

References: https://docs.oracle.com/javase/7/docs/api/java/lang/StringBuilder.html
https://www.tutorialspoint.com/java/lang/stringbuilder_substring_end.htm

QUESTION 8

HOTSPOT

You are interviewing for a job as a Java developer. You need to demonstrate your understanding of switch statements.

For each of the following code segments, select Yes if the code segment can be changed to a switch statement with up

to three case statements. Otherwise, select No.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

	Yes	No
| ```
if (age >= 25) {
   discount = 0.50;
} else if (age >= 21) {
   discount = 0.25;
] else {
   discount = 0.0;
}
``` | ◉ | ◉ |
| ```
if (grade == "A") {
   message = "Exceeds Standards";
} else if (grade == "B") {
   message = "Meets Standards";
} else {
   message = "Needs Improvement";
}
``` | ◉ | ◉ |
| ```
if (gpa == 4.0) {
   priority = 1;
} else if (gpa >= 3.0) {
   priority = 2;
} else if (gpa >= 2.5) {
   priority = 3;
}
``` | ◉ | ◉ |

Correct Answer:

Answer Area

	Yes	No

```if (age >= 25) {```
`   discount = 0.50;`
`} else if (age >= 21) {`
`   discount = 0.25;`
`} clsc {`
`   discount = 0.0;`
`}`
	◉	○

```if (grade == "A") {```
`   message = "Exceeds Standards";`
`} else if (grade == "B") {`
`   message = "Meets Standards";`
`} else {`
`   message = "Needs Improvement";`
`}`
	◉	○

```if (gpa == 4.0) {```
`   priority = 1;`
`} else if (gpa >= 3.0) {`
`   priority = 2;`
`} else if (gpa >= 2.5) {`
`   priority = 3;`
`}`
	◉	○

References: https://docs.oracle.com/javase/tutorial/java/nutsandbolts/switch.html

---

QUESTION 9

HOTSPOT

The program is supposed to display a message to the console while it counts down from 60. The method does not work as intended.

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) {
    int timer = 60;

    while (timer [____▼] 0) {
                    | <= |
                    | >= |
                    | == |
                    | => |

        if (timer [____▼] 0) {
                    | != |
                    | == |
                    | =  |
                    | => |

            break;
        }
        else {
            System.out.println("The timer is counting down...");

            timer [____▼] ;
                    | += |
                    | ++ |
                    | -  |
                    | -- |
                    | -= |
        }
    }
}
```

Correct Answer:

Answer Area

```
public static void main(String[] args) {
    int timer = 60;

    while (timer [▼] 0) {
```

<=
>=
==
=>

```
        if (timer [▼] 0) {
```

!=
==
=
=>

```
            break;
        }
        else {
            System.out.println("The timer is counting down...");
```

```
            timer [▼] ;
```

+=
++
-
--
-=

```
        }
    }
}
```

References: https://docs.oracle.com/javase/tutorial/java/nutsandbolts/operators.html

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QUESTION 10

HOTSPOT

You are writing a Java method.

The method must meet the following requirements:

Accept a String array named entries

Iterate through entries

Stop the iteration and return false if any element has more than 10 characters

Otherwise, return true

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

```
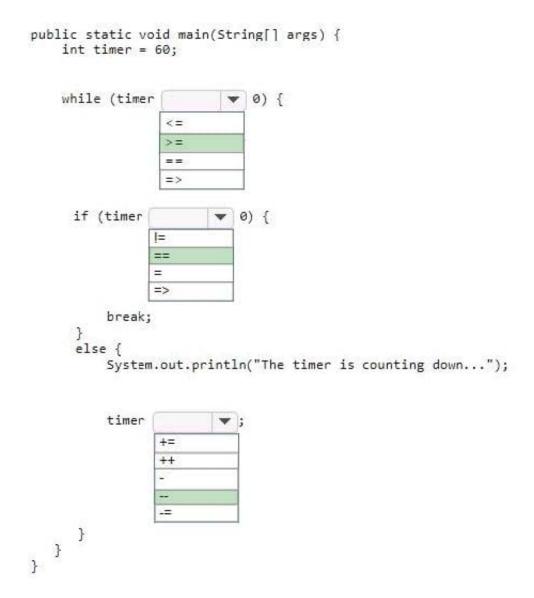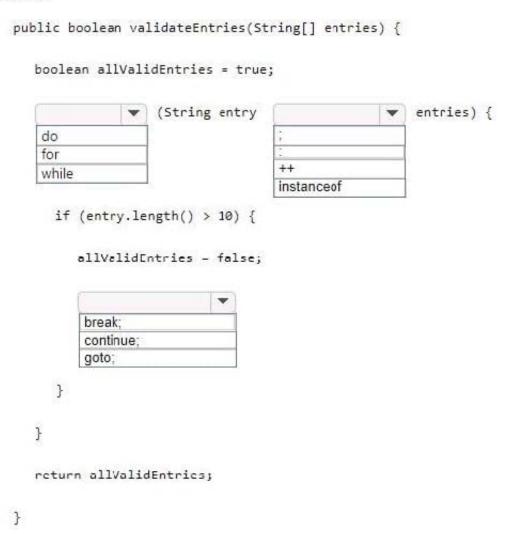public boolean validateEntries(String[] entries) {

    boolean allValidEntries = true;

    [  do  |  for  |  while  ▼] (String entry [  ;  |  :  |  ++  |  instanceof  ▼] entries) {

        if (entry.length() > 10) {

            allValidEntries = false;

            [  break;  |  continue;  |  goto;  ▼]

        }

    }

    return allValidEntries;

}
```

Correct Answer:

Answer Area

```
public boolean validateEntries(String[] entries) {

    boolean allValidEntries = true;

    [ ▼ ]  (String entry  [ ▼ ]  entries) {
    | do    |              | ;    |
    | for   |              | :    |
    | while |              | ++   |
                           | instanceof |

        if (entry.length() > 10) {

            allValidEntries = false;

            [        ▼ ]
            | break;    |
            | continue; |
            | goto;     |

        }

    }

    return allValidEntries;

}
```

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