



98-388^{Q&As}

Introduction to Programming Using Java

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QUESTION 1

HOTSPOT

You write the following code:

```
Scanner sc = new Scanner("1 Excellent 2 Good 3 Fair 4 Poor");  
Object data1 = sc.next();  
Object data2 = sc.next();  
Object data3 = sc.nextInt();  
Object data4 = sc.nextLine();
```

You need to determine the values of the data1, data2, data3, and data4 variables.

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

The value of data1 is

	▼
1	
1 Excellent 2 Good 3 Fair 4 Poor	
Excellent	

The value of data2 is

	▼
Excellent	
Excellent 2 Good 3 Fair 4 Poor	
Good	
(An empty string)	

The value of data3 is

	▼
0	
1	
2	
3	

The value of data4 is

	▼
1 Excellent 2 Good 3 Fair 4 Poor	
Good 3 Fair 4 Poor	
Fair 4 Poor	
(An empty string)	

Correct Answer:



Answer Area

The value of data1 is

1
1 Excellent 2 Good 3 Fair 4 Poor
Excellent

The value of data2 is

Excellent
Excellent 2 Good 3 Fair 4 Poor
Good
(An empty string)

The value of data3 is

0
1
2
3

The value of data4 is

1 Excellent 2 Good 3 Fair 4 Poor
Good 3 Fair 1 Poor
Fair 4 Poor
(An empty string)

References: <https://docs.oracle.com/javase/7/docs/api/java/util/Scanner.html>

QUESTION 2

DRAG DROP

You are writing a Java program that collects patient information and stores it in a database.

You need to ensure that the program stores data using the least amount of memory.

Which data type should you use to complete each variable declaration? To answer, drag the appropriate data type 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:

Data Types

boolean byte char float short

Answer Area

birthYear = 1974;
 exempt = false;
 initial = 'D';
 salary = 22123.5f;



Correct Answer:

Data Types

byte

Answer Area

<input type="checkbox"/> short	birthYear = 1974;
<input type="checkbox"/> boolean	exempt = false;
<input type="checkbox"/> char	initial = 'D';
<input type="checkbox"/> float	salary = 22123.5f;

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

QUESTION 3

HOTSPOT

You work as an intern Java programmer at Adventure Works. Your team lead asks you to create a method. The method must meet the following requirements:

Accept an int array

Check for duplicate values in the array

Stop the outer loop as soon as a duplicate value has been detected and return true

Return false if all values in the array are unique 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 boolean duplicate(int[] array) {

    boolean isDuplicate = false;

    for (   x++) {
        

|            |
|------------|
| x = 0;     |
| x = 1;     |
| int x = 1; |
| int x = 0; |



|                        |
|------------------------|
| x < array.length - 2;  |
| x < array.length - 1;  |
| x <= array.length;     |
| x <= array.length - 1; |



        for (int y = x + 1; y < array.length;  )
            if (array[x] == array[y])
                isDuplicate = true;

            

|           |
|-----------|
| x = x + 1 |
| y++       |
| y = y - 1 |
| x--       |



            if (isDuplicate)
                

|                      |
|----------------------|
| <input type="text"/> |
| break;               |
| switch;              |
| finally;             |
| continue;            |


        }

        return isDuplicate;
    }
}

```

Correct Answer:



Answer Area

```

public static boolean duplicate(int[] array) {

    boolean isDuplicate = false;

    for (      x++) {

        for (int y = x + 1; y < array.length;    )

            if (array[x] == array[y])

                isDuplicate = true;

            if (isDuplicate)

                   

        }

        return isDuplicate;

    }
}

```

References: <https://stackoverflow.com/questions/3951547/java-array-finding-duplicates>

QUESTION 4

HOTSPOT

You are writing a Java class named SavingsAccount. The class must meet the following requirements:

Inherit from an existing class named Account

Include a constructor that uses the base class constructor to initialize the starting balance

Include a substitute toString() method 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 class SavingsAccount  Account {  
    :  
    extends  
    inherits  
    implements  
  
    double rate = 0.02;  
  
    SavingsAccount(double startingBalance) {  
         (startingBalance);  
        Account  
        base  
        constructor  
        super  
    }  
  
       
    @Implements  
    @Inject  
    @Overload  
    @Override  
  
    public String toString() {
```

Correct Answer:



Answer Area

```
public class SavingsAccount  Account {  
    :  
    extends  
    inherits  
    implements  
  
    double rate = 0.02;  
  
    SavingsAccount(double startingBalance) {  
         (startingBalance);  
        Account  
        base  
        constructor  
        super  
    }  
  
       
    @Implements  
    @Inject  
    @Overload  
    @Override  
  
    public String toString() {
```

References: https://www.tutorialspoint.com/java/java_inheritance.htm

QUESTION 5

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
<pre>if (age >= 25) { discount = 0.50; } else if (age >= 21) { discount = 0.25; } else { discount = 0.0; }</pre>	<input type="checkbox"/>	<input type="checkbox"/>
<pre>if (grade == "A") { message = "Exceeds Standards"; } else if (grade == "B") { message = "Meets Standards"; } else { message = "Needs Improvement"; }</pre>	<input type="checkbox"/>	<input type="checkbox"/>
<pre>if (gpa == 4.0) { priority = 1; } else if (gpa >= 3.0) { priority = 2; } else if (gpa >= 2.5) { priority = 3; }</pre>	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:



Answer Area

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

Yes



No



```
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>

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