

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

Introduction to Programming Using Java

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**QUESTION 1****HOTSPOT**

You write the following Java program for Munson's Pickles and Preserves Farm. Line numbers are included for reference only.

```
01 try
02 {
03     int x = 1 / 0;
04     System.out.println("try");
05 }
06 catch (ArithmeticException ex)
07 {
08     System.out.println("catch ArithmeticException");
09 }
10 catch (Exception ex)
11 {
12     System.out.println("catch Exception");
13 }
14 finally
15 {
16     System.out.println("finally");
17 }
```

You encounter error messages when you attempt to compile the program.

You need to ensure the program compiles successfully.

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

	Yes	No
<code>try</code>	<input type="checkbox"/>	<input type="checkbox"/>
<code>catch ArithmeticException</code>	<input type="checkbox"/>	<input type="checkbox"/>
<code>catch Exception</code>	<input type="checkbox"/>	<input type="checkbox"/>
<code>finally</code>	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:

## Answer Area

	Yes	No
<code>try</code>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<code>catch ArithmeticException</code>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<code>catch Exception</code>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<code>finally</code>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

References: [https://www.w3schools.com/java/java\\_try\\_catch.asp](https://www.w3schools.com/java/java_try_catch.asp)

## QUESTION 2

### HOTSPOT

You are creating a method that processes invoices. The invoices are contained in an ArrayList instance. After each invoice is processed, the method must remove the invoice from the ArrayList instance.

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 Process(ArrayList<String> invoices)
{
    for (int i = ; i < invoices.; 
    {
        String invoice = invoices.get(i);
        // TODO: Process the invoice
        invoices.remove(i);
    }
}
```

Correct Answer:

### Answer Area

```
public static void Process(ArrayList<String> invoices)
{
    for (int i = ; i < invoices.; 
    {
        String invoice = invoices.get(i);
        // TODO: Process the invoice
        invoices.remove(i);
    }
}
```

References: <https://beginnersbook.com/2013/12/java-arraylist/>

### QUESTION 3

#### 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 &gt;= 25) {   discount = 0.50; } else if (age &gt;= 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 &gt;= 3.0) {   priority = 2; } else if (gpa &gt;= 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>

**QUESTION 4****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**

	<b>Yes</b>	<b>No</b>
Change the access modifier of the variable <code>id</code> to <code>public</code> .	<input type="checkbox"/>	<input type="checkbox"/>
Change the access modifier of the <code>showId</code> method to <code>public</code> .	<input type="checkbox"/>	<input type="checkbox"/>
On lines 07 and 08, add the prefix <code>customer.</code> to <code>id</code> and <code>showId()</code> .	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:

**Answer Area**

	<b>Yes</b>	<b>No</b>
Change the access modifier of the variable <code>id</code> to <code>public</code> .	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Change the access modifier of the <code>showId</code> method to <code>public</code> .	<input type="checkbox"/>	<input checked="" type="checkbox"/>
On lines 07 and 08, add the prefix <code>customer.</code> to <code>id</code> and <code>showId()</code> .	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

**QUESTION 5**

DRAG DROP

References: <https://docs.oracle.com/javase/tutorial/getStarted/cupojava/netbeans.html>

You have the following code:

```
int num1 = 10;  
int num2 = 20;  
int num3 = 30;
```

You need to create an int array named numbers initialized with num1, num2, and num3.

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

(num1, num2, num3)	[num1, num2, num3]	{num1, num2, num3}	int
int[]	new int	new int[]	

### Answer Area

numbers =   ;

Correct Answer:

### Code Segments

(num1, num2, num3)	[num1, num2, num3]		int
	new int		

### Answer Area

numbers =   ;

Example:

```
int[] numbers = new int[] {num1, num2, num3}
```

References:

<https://docs.oracle.com/javase/tutorial/java/nutsandbolts/arrays.html>

<https://alvinalexander.com/blog/post/java/java-faq-create-array-int-example-syntax>