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Vendor:Microsoft

Exam Code:98-388

Exam Name:Introduction to Programming Using Java

Version:Demo

QUESTION 1

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>

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

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 4

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

```

short birthYear = 1974;
boolean exempt = false;
char initial = 'D';
float salary = 22123.5f;
  
```

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

QUESTION 5

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++) {  
  
        for (int y = x + 1; y < array.length;   
                
                
                
              )  
  
            if (array[x] == array[y])  
  
                isDuplicate = true;  
  
            if (isDuplicate)  
  
                  
                  
                  
                  
  
        }  
  
        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 6

HOTSPOT

You work on a team that develops e-commerce applications. A member of the team creates a class named DB that connects to a database. The class contains a method named query.

You need to initiate the DB class and invoke the query 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

DB db = ;

DB()
new DB
new DB()

;

db.query()
DB.query
query()

Correct Answer:

Answer Area

DB db = ;

DB()
new DB
new DB()

;

db.query()
DB.query
query()

References: <https://docs.oracle.com/javase/8/docs/api/java/lang/reflect/Method.html#invoke-java.lang.Object-java.lang.Object...>

QUESTION 7

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
try	<input type="checkbox"/>	<input type="checkbox"/>
catch ArithmeticException	<input type="checkbox"/>	<input type="checkbox"/>
catch Exception	<input type="checkbox"/>	<input type="checkbox"/>
finally	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:

Answer Area

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

References: https://www.w3schools.com/java/java_try_catch.asp

QUESTION 8

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 <code>cnt</code> is 9, the value of <code>anum</code> is 55.
When <code>cnt</code> is 9, the value of <code>anum</code> is 56.
When <code>cnt</code> is 9, the value of <code>anum</code> is 64.
When <code>cnt</code> is 9, the value of <code>anum</code> is 65.

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

When <code>cnt</code> is 7, the value of <code>anum</code> is 55.
When <code>cnt</code> is 7, the value of <code>anum</code> is 56.
When <code>cnt</code> is 7, the value of <code>anum</code> is 62.
When <code>cnt</code> is 7, the value of <code>anum</code> is 63.

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

The value of <code>cnt</code> is 10.
The value of <code>cnt</code> is 11.
The variable <code>cnt</code> is out of scope.

Correct Answer:

Answer Area

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

When <code>cnt</code> is 9, the value of <code>anum</code> is 55.
When <code>cnt</code> is 9, the value of <code>anum</code> is 56.
When <code>cnt</code> is 9, the value of <code>anum</code> is 64.
When <code>cnt</code> is 9, the value of <code>anum</code> is 65.

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

When <code>cnt</code> is 7, the value of <code>anum</code> is 55.
When <code>cnt</code> is 7, the value of <code>anum</code> is 56.
When <code>cnt</code> is 7, the value of <code>anum</code> is 62.
When <code>cnt</code> is 7, the value of <code>anum</code> is 63.

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

The value of <code>cnt</code> is 10.
The value of <code>cnt</code> is 11.
The variable <code>cnt</code> is out of scope.

QUESTION 9

HOTSPOT

You work for Woodgrove Bank as a Java programmer.

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

```
01 public class Account {
02     protected int balance;
03     public Account() {
04         balance = 0;
05     }
06     public Account(int amount) {
07         balance = amount;
08     }
09 }
```

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

	Yes	No
The Account class has a single constructor.	<input type="checkbox"/>	<input type="checkbox"/>
Other classes can inherit the Account class.	<input type="checkbox"/>	<input type="checkbox"/>
Line 07 is equivalent to <code>this.balance = amount;</code>	<input type="checkbox"/>	<input type="checkbox"/>

Correct Answer:

Answer Area

	Yes	No
The Account class has a single constructor.	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other classes can inherit the Account class.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Line 07 is equivalent to <code>this.balance = amount;</code>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

QUESTION 10

HOTSPOT

You are creating a method that converts a string representation of a number into an actual number.

The numbers passed into the method include whole numbers and fractional numbers.

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 void convertStringToNumber(String numberAsString)
{
    number =  .  (numberAsString);

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

Correct Answer:

Answer Area

```
public void convertStringToNumber(String numberAsString)
{
    number =  .  (numberAsString);

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

References: <https://docs.oracle.com/javase/tutorial/java/data/converting.html>

QUESTION 11

HOTSPOT

You are writing a Java method.

The method accepts a two-dimensional String array and prints the content of each array element.

The size of each dimension of the array might be different.

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 void traverse(  board)
{
    for (int x = 0; x <  ; x++)
    {
        for (int y = 0; y <  ; y++)
        {
            System.out.println(  );
        }
    }
}
```

Correct Answer:

Answer Area

```
public void traverse(  board)
{
    for (int x = 0; x <  ; x++)
    {
        for (int y = 0; y <  ; y++)
        {
            System.out.println(  );
        }
    }
}
```

References: <https://www.tutorialgateway.org/two-dimensional-array-in-java/>

QUESTION 12

The question requires that you evaluate the underlined text to determine if it is correct. You have the following class definition:

```
class Logger
{
    public void logError(String message)
    {
    }
}
```

The logError method can be invoked by code in all classes in the same package as the Logger class.

Review the underlined text. If it makes the statement correct, select "No change is needed." If the statement is incorrect, select the answer choice that makes the statement correct.

- A. No change is needed
- B. only by the Logger class
- C. only by the Logger class and classes in the same package that inherit from it

D. by all classes in all packages

Correct Answer: C