correct positions on the right. You may use each code segment once, more    • • •

```
Which code segment maintains the original array elements when exiting the loop?

Θ A. for(int i = θ; i < intArray.length; i++)
</p>
         intArray[i] *= 2;

    B for(Integer i : intArray)

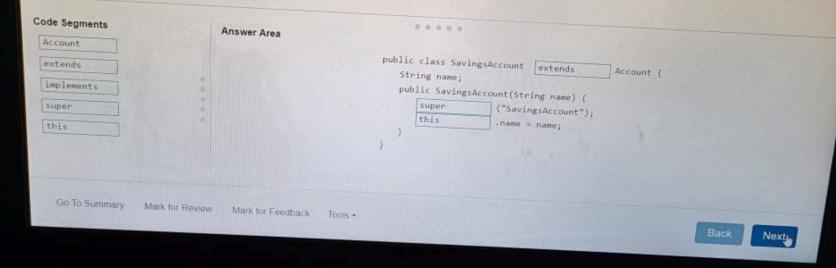
         i *= 2;
 O C int count = 0;
         do
         intArray[count] *= 2;
           count++;
         while(count < intArray.length);
  O D int count = 0;
         while(count < intArray.length)
           intArray[count] *= 2;
         count++;
      Go To Summary Mark for Review Mark for Feedback Tools +
```

You have a Java class named Account. The constructor of the Account class accepts a String object.

You need to create a class named SavingsAccount that inherits from the Account class. The constructor of the SavingsAccount class perform the following tasks:

- Pass a String value SavingsAccount to the constructor of the Account class.
- Initialize the class member name with the value of the constructor parameter name.

Complete the code by moving the appropriate code segments from the list on the left to the correct positions on the right. You may use each code segment once, more Note: You will receive partial credit for each correct selection.



```
Review the following code:
public class Handler {
    static int[] a;
     static (
        a[0]=2;
     public static void main( String[] args ) (
              int number = a[\theta]++/3;
              int result = a[0]/number;
              System.out.println("The final result is: " + result);
          } catch(Exception e) {
              if(e instanceof ArithmeticException) {
                  System.out.println("The exception name is: " +e.getClass().g
              System.out.println("The exception name is: " +e.getClass().getCa
```

What is the output when you run the program?

- A The final result is: 2
- B java.lang.ExceptionInInitializerError
- C The exception name is: java.lang.RuntimeException
- D. The exception name is: java.lang.ArithmeticException

The Movie class includes a method is InMovie that is accessible only from within the class. The is InMovie method accepts the name of an actor to compare against a list

Complete the code by selecting the correct option from each drop-down list.

Note. You will receive partial credit for each correct selection.

#### Answer Area

```
private • | bool • | isInMovie (Movie actor) •
   for (int i = 0; i < numActors; i++) {
      if (actors[i] .= actor) return true; •
   return false: *
```



You are developing an application that reads and writes files. The application must perform the following tasks:

- Display exceptions that are due to file handling errors.
- Display the stack information if any other exception occurs

Complete the code by selecting the correct code segment from each drop-down list

Note: You will receive partial credit for each correct selection.

```
Answer Area
```

```
try
   /* add logic */
catch ( | IOException
                      ▼ e1)
   System.out.println(e1. printStackTrace() *);
catch ( Exception * e2)
   System.out.println(#2. |pnntStackTrace() | *);
```

00000

Go To Summary Mark for Review Mark for Feedback Tools +



You work as a Java programmer for a bank

Evaluate the following class. Line numbers are included for reference only.

```
01 public class Account {
    protected int balance;
    public Account() {
94
      balance = 0;
05
    public Account(int amount) {
 97
      balance = amount;
 08 }
 09 }
```

# Answer Area

The Account class has a single constructor Other classes can inherit the Account class

Line 07 is equivalent to this.balance = amount;

....

True False

Go To Summary Mark for Review Mark for Feedback Tools \*

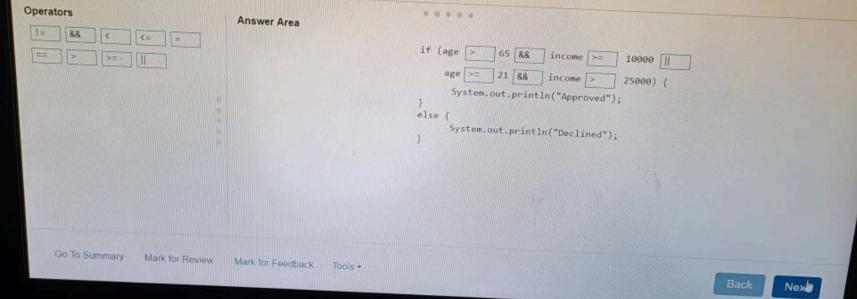


The constructor method for the Rectangle class takes integer arguments named length and width length and width are declared in main and assigned values from You need to create an instance of the Rectangle class named rect1. Complete the code by selecting the correct option from each drop-down list Note: You will receive partial credit for each correct selection. Answer Area .... Rectangle rect1 = new Rectangle(length, width) | - ; Go To Summary Mark for Review Mark for Feedback Tools -

A company hires you to write a Java program to manage credit account openings. To open a new account, a person must meet one the following requirements:

- Be over 65 years old and have a minimum annual income of 10,000.
- Be at least 21 and have an annual income greater than 25,000.

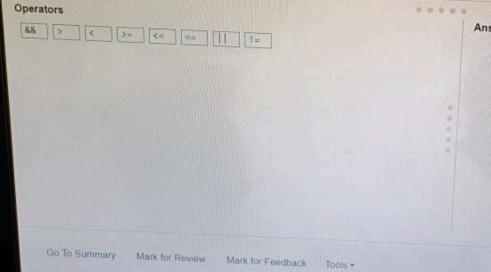
Complete the code by moving the appropriate operators from the list on the left to the correct positions on the right. You may use each operator once, more than once, or



You need to create an if statement that evaluates to true when both of the following conditions are met

- sum is greater than or equal to num.
- · cnt is smaller than num

Complete the code by moving the appropriate operators from the list on the left to the correct positions on the right. You may use each operator once, more than once, or



Answer Area

if (num <= sum && cnt < num)



Evaluate the following code segment

int x = 50; x += 100 % 5 + 10 \* 2;

What is the final value of x?

- 0 A 0
- 9 B 10
- C 20
- 9 D. 50
- E 70
- 0 F 110

Go To Summary Mark for Review Mark for Feedback Tools \*



# Evaluate the following exception:

Exception in thread "main" java.lang.ArrayIndexOutOfBoundsException: 5

- at itsjava.Program.arrayDisplay(Program.java:31)
- at itsjava.Program.beginProcess(Program.java:23)
- at itsjava.Program.main(Program.java:18)

# For each statement, select True or False

Note. You will receive partial credit for each correct selection.

#### Answer Area

True False The root cause of the exception is in the method beginProcess() An error occurred on line 31. Three methods were invoked before the error occurred. The stack trace indicates that the exception was caused by a syntax error.

....

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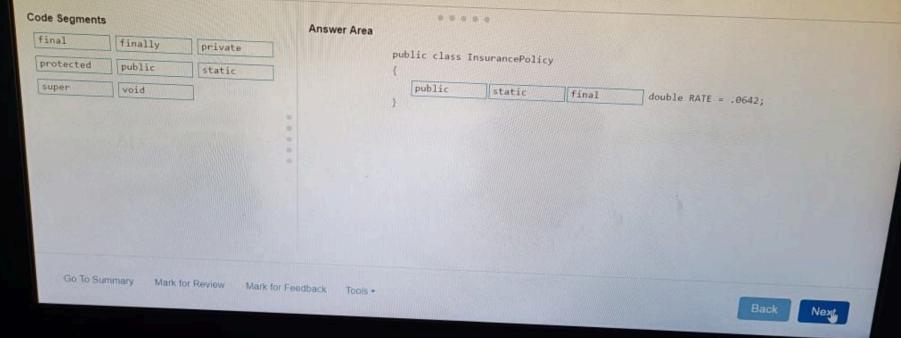
```
The following Java method calculates scholarship award amounts based on grade point average (gpa). Line numbers are included for reference only.
01 static double calculateAward(double gpa, int satScore, int actScore)
      double award = 0;
      if (gpa >= 3.7 && (satScore >= 1200 || actScore >= 26))
 94
 05
 06
         award = 30000;
 97
       else if (gpa >= 3.0 || satScore >= 1200 || actScore >= 26)
  98
  10
         award = 15000;
  11
   Answer Area
                                                                           图 图 用 图 图
                                            What is the return value of calculateAward(3.2, 1100, 28)?
                                                                                                      15000
                                            What is the return value of calculateAward(2.7, 1500, 30)?
                                                                                                      15000
                                            What is the return value of calculateAward(3.7, 1300, 23)?
                                                                                                     30000
        Go To Summary Mark for Review Mark for Feedback Tools +
                                                                                                                                               Next
```

You have a Java class named InsurancePolicy

----

You need to define a constant data member named RATE. The data member must be accessible by any class without instantiating the InsurancePolicy class.

Complete the code by moving the appropriate code segments from the list on the left to the correct positions on the right. You may use each code segment once, more than once, or not at all



```
Evaluate the following code segment. 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++) [
        add(anum);
 06 System.out.println(anum);
 07 }
  09 public static void add(int anum) {
  10 anum++;
  11 }
   Answer Area
                                                                           00000
                                            When cnt is 9, what is the value of anum after line 04 runs?
                                            When cnt is 7, what is the value of anum after line 10 runs?
                                            What is the value of cnt at line 06?
        Go To Summary Mark for Review Mark for Feedback Tools •
```

Evaluate the following code segment. Line numbers are ince 01 byte value1 = 127; 02 value1++; 03 System.out.println(value1); 04 System.out.println(1.0 / 3.0); 05 System.out.println(1.0 / 3.0f); Answer the questions by selecting the correct option from Note. You will receive partial credit for each correct selections.	each drop-down list.		
Answer Area	What is the output of line 03? What is the output of line 04? What is the output of line 05?	0 333333333333333333333333333333333333	
Go To Summary Mark for Review Mark for Fe	eedback Tools •		Back Naxt

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

01 String s1 = "Hello World"; 02 String s2 = "Hello World"; 03 String s3 = s2; 05

For each statement, select True or False.

Note: You will receive partial credit for each correct selection.

Answer Area

....

	True	False
s1 and s2 refer to the same object in memory.	180	
s2 and s3 refer to the same object in memory.	- 14	
A different string can be assigned to s1 on line 04.	(%)	
A different string can be assigned to s2 on line 05		

Go To Summary Mark for Review Mark for Feedback Tools •



int num1 = 10; int num2 = 20;					
int num3 = 30; complete the code by moving than once, or not at all	he appropriate cor	de segments from	the list on the li	eft to the correct positions on the right. You m	nay use each code segment once, more
Code Segments		Answer Area			
(num1, num2, num3) [num1, num2, num3]			int[]	numbers = [new int[]	{num1, num2, num3} ;
{num1, num2, num3}					;
int[] new int					
new int[]					

You work as a Java programmer. Your colleague creates the following class. Line numbers

```
01 public class Rectangle (
02 private int width;
    private int length;
04
    Rectangle(int width, int length) (
 05
     this.width = width;
 06
 97
       this.length = length;
 88
 89
      public int area() {
 10
  11
       return this.width * this.length;
  12
  13
  14 public int getWidth() {
       return width;
  16 }
   17
   18 public int getLength() {
   19
       return length;
   20 3
   21 )
```

You need to write code to test the Rectangle class.

Complete the code by selecting the correct code segment from each drop-down

00000

#### Answer Area

int areaNum;

Rectangle rect = new Rectangle(20, 40), | >

areaNum = rect area();

 $System.out.printf("Width = %d Length = %d\n", rect.getWidth(), rect.getLength()$ 

System.out.printf("Area is correct %b\n", areaNum == 800);



What happens when the following code segment runs?

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

- A iNum has a value of 0.
- B iNum has a value of 2
- © C. iNum has a value of 3
- D An exception is thrown.

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------



Evaluate the following code segment. 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); 96 } Answer the questions by selecting the correct option from each drop-down list. Note: You will receive partial credit for each correct selection. Answer Area 00000 What is the output of line 03? Pi is 3.142 What is the output of line 04? Pils 3 What is the output of line 05? Pi is 00000000003 141593 -

Go To Summary Mark for Review Mark for Feedback Tools -





You are writing a Java method named countdown. The method must perform the following tasks:

- Accept an int parameter named start
- Display all numbers from start to zero in decrements of one.

Complete the code by selecting the correct code segment from each drop-down list.

Answer Area

....

```
public static void countdown(int start) {
     for ((int) = start; \quad \bullet ) \mid i >= 0, \quad \bullet \quad \mid -i \quad \mid \bullet \rangle) (
        System.out.println(i);
```

Go To Summary Mark for Review Mark for Feedback Tools \*



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

```
01 public static void method1() {
02
      int x = 1;
03
      int y = 1;
94
 05
       for (int i = 0; i < 10; i++) {
 96
        x += i;
 07
 08
       for (int i = 0; i < 10; i++) {
 09
           y += i;
 10
 11 ]
  12
  13 public static void method2() {
        int i = 1;
  15
        int sum = 0;
  16
        for (int i = 0; i < 10; i++) {
  17
  18
           Sum += 1;
   19
   28 }
```

For each statement, select True or False

#### Answer Area

The first method causes a compilation error because the variable i is declared in two non-nested blocks

00000

The second method causes a compilation error because the variable i is declared in two nested blocks.

### True

0

False



You are writing a Java method. The method must perform the following tasks:

- · Accept an int parameter named age.
- Assign the senior classification if age is 65 or higher.
- Assign the adult classification if age is 20 or higher, but lower than 65
- Otherwise, assign the youth classification

Complete the code by selecting the correct code segment from each drop-down list.

#### Answer Area

```
public static String ageClassification(int age) {
   String classification;
   if (age >= 65)
      classification = "senior"
   else if (age >= 20)
     classification = "adult";
       classification = "youth";
   return classification;
```

\*\*\*

Go To Summary Mark for Review Mark for Feedback Tools +



```
Review the following class definition.
public class Box
  protected short minBoxWidth;
  protected short maxBoxWidth;
Which class(es) can access the minBoxWidth and maxBoxWidth data members?

    A Only the Box class

    B Only classes in the same package and classes that inherit the Box class.

    C. Only classes that do not inherit from the Box class.

  O D. All classes
```

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You need to determine what happens when the following code runs. 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); 07 float data3 = new Float("-65.0"); 08 System.out.println(data3); 10 short data4 = new Short("65.0"); 11 System.out.orintln(data4): Answer Area ---What happens when lines 01 and 02 are run? The number 65 is displayed What happens when lines 04 and 05 are run? The number 65 is displayed What happens when lines 07 and 08 are run? An exception is thrown What happens when lines 10 and 11 are run? An exception is thrown Go To Summary Mark for Review Mark for Feedback Tools -

```
Which two code segments show the correct syntax for a multi-line comment? (Choose 2.)
       //* This is a multi-
         line comment
 ⊠ B.
        /* This is a multi-
        line comment
  □ c.
        1*11
        This is a multi-
          line comment
         //* This is a multi-
          line comment
      Go To Summary Mark for Review Mark for Feedback Tools •
```

You write the following Java program. Line numbers are included for reference only

```
01 class Pickle {
02 boolean isPreserved = false;
03 private boolean isCreated = false;
05 void preserve() (
      isPreserved = true;
97
 98
     public static void main(String[] args)
89
 10
 11
       Pickle pickle = new pickle();
 12
       isCreated = true;
       pickle.preserve;
 13
 14 )
 15 )
```

You encounter error messages when you attempt to compile the program

You need to ensure that the program compiles successfully

Correct the code by selecting the correct code segment from each drop-down list.

00000

#### Answer Area

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You initialize the following variables:

```
int a = 5;
double b = 3.5;
int c = 33;
float d = 0.5f;
short e = 22;
```

Identify the value of each code segment by moving the appropriate values from the list on the left to the corresponding code segments on the right. You may use each Note: You will receive partial credit for each correct selection.

# Values 0.175

4.0

0.5

0.7

12 22

27 33

#### Answer Area

00000

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Next

You need to always print every element in the two-dimensional array.

Complete the code by selecting the correct option from the drop-down list

Answer Area

.....

```
for(int row=0; row < intArray.length; row++)
   for(int column = 0; | column < intArray[row].length, column++)
      System.out.println(intArray[row][column]);
```

Go To Summary Mark for Review Mark for Feedback Tools +



```
Review the following class definition:
class Logger
     public void logError(String message)
 What can invoke the logError method?

    A. Only code in all classes in the same package as the Logger class.

    B. Only the Logger class

  © C. Only the Logger class and classes in the same package that inherit from it.

    D. All classes in all packages.

       Go To Summary Mark for Review Mark for Feedback Tools +
```

Question 35 of 40

Time Remaining 00:12:02

You are interviewing for a job as a Java developer. You need to demonstrate your understanding of the main method. For each statement, select True or False

Note You will receive partial credit for each correct selection.

Answer Area

....

The main method parameter args is an array of type String.

False

A Java application can accept only one argument from the command line The main method must be static because it is run without instantiating an instance of

True

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```
Review the following code:
public class Logger {
    public static void main(String[] args)
       int[][] arr = { { 9, 15 }, { 18, 20, 40 } };
       for (int i = 2; i >= 0; i--) (
          for (int j = 2; j >= 0; j--) {
            System.out.print(arr[i][j] + " ");
```

What is the output when you run the program?

- O A 20 18 15 9
- @ B 40 15 20 9 18
- C. |ArrayIndexOutOfBounds Exception
- D. Compilation error

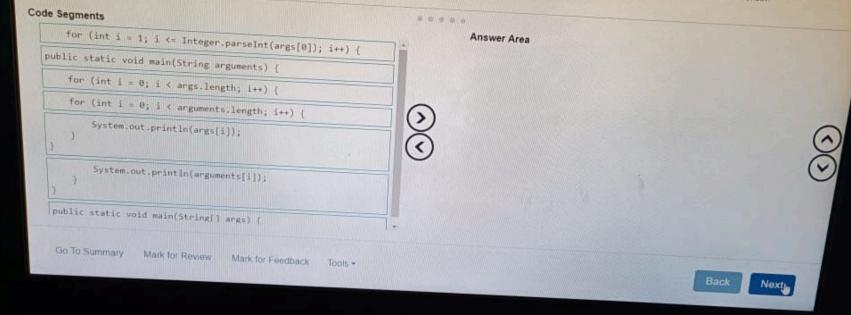
Go To Summary Mark for Review Mark for Feedback Tools •

Time Remaining 00:11:53 Complete the sentences about working with branching statements in Java by selecting the correct option from each drop-down list. Note: You will receive partial credit for each correct selection. Answer Area . . . . . . To terminate the inner loop of a nested for loop, use a labeled break ▼ statement To terminate the outer loop of a nested for loop, use a lireturn ▼ statement To jump to the next iteration of an inner loop in a nested loop, use a Continue | statement Go To Summary Mark for Review Mark for Feedback Tools +

You are interviewing for a job. The hiring manager asks you to create a simple console program. The program must perform the following tasks:

- Write the arguments to the screen in the same order the user enters them on the command line.

Which three code segments should you use in sequence to develop the solution? Move the three code segments to the answer area and place them in the correct order.



You are creating a class named Phone that must meet the following requirements:

- Include a method named dialNumber that cannot be overridden by derived classes.
- Only classes in the same package as the Phone class can call the dia1Number method

Complete the code by selecting the correct option from each drop-down list

Note: You will receive partial credit for each correct selection

```
Answer Area
```

```
class Phone (
    protected
                 ▼ final
                                  ▼ void dialNumber(String phoneNumber) {
```

.....

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Question 1 of 40 Time Remainin

You are creating a Java class to implement an Integer stack based on an ArrayList.

You need to implement the following two methods:

- The pop method removes an Integer from the beginning of the ArrayList and returns the removed Integer. • The push method adds an Integer to the Deginning of the ArrayList.

Complete the code by selecting the correct code segment from each drop-down list

Note: You will receive partial credit for each correct selection.

# Answer Area

```
public static Integer pop(ArrayList<Integer> stack) (
    int index = 0
   return stack remove(index);
public static void push(ArrayList<Integer> stack, Integer item) {
   int index = 0
   stack add(index, item), *
```

14 14 14 14 15

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Tools +

Evaluate the following Java program. Line numbers are included for reference only.

```
01 public static void main(String[] args)
02 {
03 int x = 5;
04 int y = 7;
05 String value1 = "x + y = " + x + y;
 96 System.out.println(value1);
 07 String value2 = "x + y = " + (x + y);
 08 System.out.println(value2);
  09 )
```

Answer the questions by selecting the correct option from each drop-down list

Answer Area

What is the output of line 06?

8 0 0 0 0

x + y = 57

What is the output of line 08?

x + y = 12

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