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Introduction to Programming Using Java

Microsoft 98-388

Version Demo

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QUESTION NO: 1 - (HOTSPOT)

HOTSPOT

You work as a Java programmer. A member of the team creates the following program. Line numbers are included for reference only.

```
01 public static void main(String[] args) {
02     int timer = 60;
03
04     while (timer => 0)
05     {
06         if (timer = 0)
07             break;
08         else
09         {
10             System.out.println("The timer is counting down...");
11             timer++;
12         }
13     }
14 }
```

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
```

<=
>=
==
=>

```
    if (timer
```

!=
==
=
=>

```
        break;
```

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

```
        timer
```

+=
++
-
--
-=

```
    }  
}
```

ANSWER:

Answer Area

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

```
    while (timer
```

<=
>=
==
=>

```
    if (timer
```

!=
==
=
=>

```
        break;
```

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

```
        timer
```

+=
++
-
--
-=

Explanation:

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

QUESTION NO: 2

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

```
01 public static void main(String[] args)
02 {
03     double number = 27;
04     number %= -3d;
05     number += 10f;
06     number *= -4;
07     System.out.println(number);
08 }
```

What is the output of line 07?

- A. -44
- B. -40.0
- C. 40.0
- D. 44.0

ANSWER: B

QUESTION NO: 3 - (DRAG DROP)

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		

ANSWER:

Values	Answer Area
1	1
5	100
10	25
25	
100	

> <

Explanation:

QUESTION NO: 4 - (HOTSPOT)

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()

ANSWER:

Answer Area

```
DB db =  ;
```

DB()
new DB
new DB()

```
 ;
```

db.query()
DB.query
query()

Explanation:

References:

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

QUESTION NO: 5

You need to analyze the following code segment. Line numbers are included for reference only.

```
01 public void printInt()  
02 {  
03     if (true) {  
04         int num = 1;  
05         if (num > 0) {  
06             num++;  
07         }  
08     }  
09     int num = 1;  
10     addOne(num);  
11     num = num - 1;  
12     System.out.println(num);  
13 }  
14  
15 public void addOne(int num)  
16 {  
17     num = num + 1;  
18 }
```

What is the output of line 12 when you run printInt()?

- A. 0
- B. 1
- C. 2
- D. 3

ANSWER: A

QUESTION NO: 6 - (HOTSPOT)

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;  
  
    (String entry  
do  
for  
while  
entries) {  
:  
:  
++  
instanceof  
  
    if (entry.length() > 10) {  
  
        allValidEntries = false;  
  
        break;  
        continue;  
        goto;  
    }  
}  
  
return allValidEntries;  
}
```

ANSWER:

Answer Area

```
public boolean validateEntries(String[] entries) {  
    boolean allValidEntries = true;  
  
    for (String entry : entries) {  
        if (entry.length() > 10) {  
            allValidEntries = false;  
            break;  
        }  
    }  
  
    return allValidEntries;  
}
```

The image shows a code editor with several dropdown menus open to show available options for completion:

- Under the opening curly brace of the `for` loop, the dropdown menu shows `do`, `for`, and `while`, with `while` selected.
- Under the opening curly brace of the `if` statement, the dropdown menu shows `:`, `++`, and `instanceof`, with `++` selected.
- Under the `break;` statement, the dropdown menu shows `break;`, `continue;`, and `goto;`, with `break;` selected.

Explanation:

QUESTION NO: 7

The question requires that you evaluate the underlined text to determine if it is correct.

You should use an `int` data type to store the numeric value 3,000,000,000 (3 billion) so that the least amount of memory is used.

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. a short

- C. a byte
- D. a long

ANSWER: D

QUESTION NO: 8

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

ANSWER: C

QUESTION NO: 9

You work as a Java programmer.

You need to convert a numeric String to a primitive double value.

What code segment should you use?

- A. Double.valueOf(numberString);
- B. double.parseDouble(numberString);
- C. String.parseDouble(numberString);

D. Double.parseDouble(numberString);

ANSWER: B

Explanation:

References: <https://www.javacodeexamples.com/convert-string-to-primitive-example/140>

QUESTION NO: 10

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.

ANSWER: C