

## CS23333-Object Oriented Programming Using Java-2023

## Quiz navigation

[Show one page at a time](#)[Finish review](#)**Status** Finished**Started** Sunday, 6 October 2024, 11:58 PM**Completed** Monday, 7 October 2024, 12:28 AM**Duration** 29 mins 33 secs**Question 1**

Complete

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Which of the following statements assigns the letter S to the third row and first column of a two-dimensional array named strGrid (assuming row-major order).

- ☐ a. strGrid[0][0] = "S";
- ☐ b. strGrid[3][1] = "S";
- ☐ c. strGrid[0][2] = "S";
- ☒ d. strGrid[2][0] = "S";
- ☐ e. strGrid[1][3] = "S";

**Question 2**

Complete

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Given the following:

```
double[][] things =
```

```
{ {1.2, 9.0},
```

```
{9.2, 0.5, 0.0},
```

```
{7.3, 7.9, 1.2, 3.9} };
```

What is the value of things.length ?

- ☒ a. 2
- ☐ b. 9
- ☐ c. 4
- ☐ d. 3

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Question 3

Complete

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Given the following code snippet:

```
float average[] = new float[6];
```

Assuming the above declaration is a local variable in a method of a class, after the above statement is executed, which of the following statement is false?

- ☐ a. average[0] is 0.0
- ☐ b. average[6] is undefined
- ☐ c. average.length is 6
- ☒ d. average[5] is undefined

Question 4

Complete

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An array elements are always stored in \_\_\_\_\_ memory locations.

- ☐ a. Sequential and Random
- ☐ b. Binary search
- ☐ c. Random
- ☒ d. Sequential

Question 5

Complete

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Because Java does not support pointers, Java array elements are accessed only through indexes.

- ☐ a. False
- ☐ b.
- ☐ c.
- ☒ d. True

Question 6

Complete

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Analyze the following code and choose the correct answer.

```
int[] arr = new int[5];
```

```
arr = new int[6];
```

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## Question 6

Complete

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Analyze the following code and choose the correct answer.

```
int[] arr = new int[5];
```

```
arr = new int[6];
```

- ☐ a. The code has runtime errors because the variable arr cannot be changed once it is assigned.
- ☐ b. The code has compile errors because we cannot assign a different size array to arr.
- ☒ c. The code can compile and run fine. The second line assigns a new array to arr.
- ☐ d. The code has compile errors because the variable arr cannot be changed once it is assigned.

## Question 7

Complete

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What will be output for the following code?

```
class array_output
{
    public static void main(String args[])
    {
        int array_variable[][] = {{ 1, 2, 3}, { 4, 5, 6}, { 7, 8, 9}};
        int sum = 0;
        for (int i = 0; i < 3; ++i)
        for (int j = 0; j < 3; ++j)
            sum = sum + array_variable[i][j];
        System.out.print(sum / 5);
    }
}
```

- ☐ a. 11
- ☐ b. 8
- ☐ c. 10
- ☒ d. 9

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Question 8

Complete

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What is the output of the following code fragment:

```
int[] y = new int[5];
```

```
y[0] = 34;
```

```
y[1] = 88;
```

```
System.out.println( y[0] + " " + y[1] + " " + y[5] );
```

- ☒ a. The program is defective and will not compile
- ☐ b. 34 88 0
- ☐ c. 0 34 88
- ☐ d. 34 88 88

Question 9

Complete

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The following code prints:

```
for(int i =0; i<Arr[0].length;i++)
```

```
{
```

```
    System.out.print(Arr[Arr.length-1][i]+" ");
```

```
}
```

- ☐ a. None of the mentioned
- ☒ b. Last row elements
- ☐ c. Middle row elements
- ☐ d. First row elements

Question 10

Complete

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Which of the following declares an array of int named img?

- ☒ a. int[] img;
- ☐ b. int img = int[];
- ☐ c.

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Question 10  
Complete

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Which of the following declares an array of int named img?

- ☒ a. `int[] img;`  
☐ b. `int img = int[];`  
☐ c.  
☐ d. `int img;`  
☐ e. `new int img[];`

Question 11  
Complete

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[Flag question](#)How many columns does a have if it is created as follows `int[][] a = { {2, 4, 6, 8}, {1, 2, 3, 4}};`?

- ☐ a. 8  
☐ b. 2  
☐ c.  
☒ d. 4  
☐ e. 6

Question 12  
Complete

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The following code prints:

```
for(int i = 0; i < Arr[0].length; i++)  
{  
    System.out.print(Arr[0][i] + " ");  
}
```

- ☐ a. Middle row elements  
☐ b. None of the mentioned  
☒ c. First row elements  
☐ d. Last row elements

Question 13

Although we use the term multidimensional arrays, a multidimensional array is really an array of

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- ☒ c. First row elements
- ☐ d. Last row elements

Question 13

Complete

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Although we use the term multidimensional arrays, a multidimensional array is really an array of

- ☒ a. Arrays
- ☐ b. Integers
- ☐ c. Loops
- ☐ d. Fields

Question 14

Complete

Marked out of 1.00

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In Java arrays are:

- ☐ a. None of the mentioned
- ☒ b. objects
- ☐ c. object references
- ☐ d. primitive data type

Question 15

Complete

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Java array indices start at

- ☐ a.
- ☐ b. 1
- ☒ c. 0
- ☐ d.

Question 16

Complete

Marked out of 1.00

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Which of the following will declare an array and initialize it?

- ☐ a. `int a[] = new int(5);`
- ☐ b. `Array a = new Array(5);`

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Question 16

Complete

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Which of the following will declare an array and initialize it?

- ☐ a. `int a[] = new int(5);`
- ☐ b. `Array a = new Array(5);`
- ☐ c. `int [5] array;`
- ☒ d. `int array[] = new int [5];`

Question 17

Complete

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If an index value is less than 0 or greater than or equal to 'array name'.length in an array element access expression, an \_\_\_\_ is thrown.

- ☒ a. `ArrayIndexOutOfBoundsException`
- ☐ b. `ArrayOutOfBoundsException`
- ☐ c. `ArraysIndexOutOfBoundsException`
- ☐ d. `ArrayIndexsOutOfBoundsException`

Question 18

Complete

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Which of the following is an illegal declaration of array?

- ☒ a. `Dog mydogs[7];`
- ☐ b. `char [] mychars;`
- ☐ c. `int [] myscore[];`
- ☐ d. `Dog mydogs[];`

Question 19

Complete

Marked out of 1.00

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The ith element in the array has an index:

- ☒ a. `i`
- ☐ b. `i+1`
- ☐ c. None of the mentioned
- ☐ d. `i-1`



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Question 20  
Complete

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Which will legally declare, construct, and initialize an array?

- ☐ a. `int myList [] = {4, 3, 7};`
- ☒ b. `int [] myList = {5, 8, 2};`
- ☐ c. `int [] myList = {};`
- ☐ d. `int myList [] [] = {4,9,7,0};`

Question 21  
Complete

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Which of the following is FALSE about arrays on Java?

- ☐ a. None of the mentioned
- ☐ b. A java array is always an object
- ☐ c. Arrays in Java are always allocated on heap
- ☒ d. Length of array can be changed after creation of array

Question 22  
Complete

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What would be the result of attempting to compile and run the following code?

```
public class HelloWorld{  
    public static void main(String[] args){  
        double[] x = new double[]{1, 2, 3};  
        System.out.println("Value is " + x[1]);  
    }  
}
```

- ☒ a. The program has a compile error because the syntax `new double[]{1, 2, 3}` is wrong and it should be replaced by `{1, 2, 3}`.
- ☐ b. The program compiles and runs fine and the output
- ☐ c. The program has a compile error because the syntax `new double[]{1, 2, 3}` is wrong and it should be replaced by `new double[]{1.0, 2.0, 3.0}`;
- ☐ d. The program has a compile error because the syntax `new double[]{1, 2, 3}` is wrong and it should be replaced by `new double[3]{1, 2, 3}`;



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Question 23

Complete

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What is the output of the following code fragment:

```
int[] ar = {2, 4, 6, 8 };
ar[0] = 23;
ar[3] = ar[1];
System.out.println( ar[0] + " " + ar[3] );
```

- ☒ a. 23 4
- ☐ b. 2 8
- ☐ c. 21
- ☐ d. 23 2

Question 24

Complete

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Examine the following:

```
double[][] values =
{ {1.2, 9.0, 3.2},
  {9.2, 0.5, 1.5, -1.2},
  {7.3, 7.9, 4.8} };
```

What is in values[[3]][0] ?

- ☐ a. 7.3
- ☐ b. 7.9
- ☒ c. There is no such array element
- ☐ d. 9.2

Question 25

Complete

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Which of the following constructs and assigns to array a 2D array with 7 rows, but does not yet construct the rows?

- ☐ a. int[] array[7] = new int[];

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Question 25

Complete

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Which of the following constructs and assigns to array a 2D array with 7 rows, but does not yet construct the rows?

- ☐ a. `int[] array[7] = new int[];`
- ☐ b. `int[][] array = new int[7];`
- ☐ c. `int[][] array = new int[][7];`
- ☒ d. `int[][] array = new int[7][];`

Question 26

Complete

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Which of these operators is used to allocate memory to array variable in Java?

- ☒ a. `new`
- ☐ b. `malloc`
- ☐ c. `alloc`
- ☐ d. `new malloc`

Question 27

Complete

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In Java, each array object has a final field named \_\_\_\_ that stores the size of the array.

- ☐ a. `width`
- ☒ b. `length`
- ☐ c. `distance`
- ☐ d. `size`

Question 28

Complete

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```
int[][] Marks = new int[5][3]
```

This creates

- ☐ a. 2x4 2D Array
- ☐ b. 4x2 2D Array
- ☒ c. 5x3 2D Array

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Question 28

Complete

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```
int[] Marks = new int[5][3]
```

This creates

- ☐ a. 2x4 2D Array
- ☐ b. 4x2 2D Array
- ☒ c. 5x3 2D Array
- ☐ d. 3x5 2D Array

Question 29

Complete

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What is output of the following code:

```
public class Test{  
    public static void main(String[] args){  
        int[] x = {120, 200, 016};  
        for(int i = 0; i < x.length; i++){  
            System.out.print(x[i] + " ");  
        }  
    }  
}
```

- ☐ a. 120 200 16
- ☐ b. 120 200 016
- ☐ c. 016 is a compile error. It should be written as 16.
- ☒ d. 120 200 14

Question 30

Complete

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Given:

```
int[][] items =  
{ {0, 1, 3, 4},  
  {4, 3, 99, 0, 7},
```

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Question 30

Complete

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1.00[Flag question](#)

Given:

```
int[] items =  
{ {0, 1, 3, 4},  
  {4, 3, 99, 0, 7 },  
  {3, 2} };
```

Which of the following fragments prints out every element of items?

- ☒ a. 

```
for ( int row=0; row < items.length; row++ )  
{  
    System.out.println();  
    for ( int col=0; col < items[col].length; col++ )  
        System.out.print( items[row][col] + " ");  
}
```
- ☐ b. 

```
for ( int row=0; row < items.length; row++ )  
{  
    System.out.println();  
    for ( int col=0; col < items.length; col++ )  
        System.out.print( items[row][col] + " ");  
}
```
- ☐ c. 

```
for ( int row=0; row < items.length; row++ )  
{  
    System.out.println();  
    for ( int col=0; col < items[row].length; col++ )  
        System.out.print( items[row][col] + " ");  
}
```
- ☐ d. 

```
for ( int row=0; row < items.length; row++ )  
{
```

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Question 31

Complete

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What are the contents of arr after the following code has been executed?

```
int[] arr = { {3,2,1},{1,2,3}};
int value = 0;
for (int row = 1; row < arr.length; row++) {
    for (int col = 1; col < arr[0].length; col++) {
        if (arr[row][col] % 2 == 1)
        {
            arr[row][col] = arr[row][col] + 1;
        }
        if (arr[row][col] % 2 == 0)
        {
            arr[row][col] = arr[row][col] * 2;
        }
    }
}
```

- ☐ a. { {3, 2, 1}, {2, 4, 4} }
- ☒ b. { {6, 4, 2}, {2, 4, 6} }
- ☐ c. { {4, 4, 2}, {2, 4, 4} }
- ☐ d. { {3, 2, 1}, {1, 4, 8} }
- ☐ e. { {3, 2, 1}, {1, 4, 6} }

Question 32

Complete

Marked out of 1.00

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Given the following code segment, what is the value of sum after this code executes?

```
int[] matrix = { {1,1,2,2},{1,2,2,4},{1,2,3,4},{1,4,1,2}};
```

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Question 32

Complete

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Given the following code segment, what is the value of sum after this code executes?

```
int[][] matrix = { {1,1,2,2},{1,2,2,4},{1,2,3,4},{1,4,1,2}};
```

```
int sum = 0;
int col = matrix[0].length - 2;
for (int row = 0; row < 4; row++)
{
    sum = sum + matrix[row][col];
}
```

- ☐ a. 10
- ☐ b. 8
- ☐ c. 4
- ☐ d. 9
- ☒ e. 12

Question 33

Complete

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Which will legally declare, construct, and initialize an array?

- ☐ a. `int [] myList = {"9", "6", "3"};`
- ☐ b. `int [3] myList = (9, 6, 3);`
- ☒ c. `int [] myList = {9, 6, 3};`
- ☐ d. `int myList[] [] = {9,6,3,0};`

Question 34

Complete

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Arrays in Java are dynamically allocated using the \_\_\_\_ operator.

- ☐ a. `arrayList`
- ☐ b. `dynamic`
- ☒ c. `new`

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Complete

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- ☐ a. `int [] myList = {"9", "6", "3"};`
- ☐ b. `int [3] myList = (9, 6, 3);`
- ☒ c. `int [] myList = {9, 6, 3};`
- ☐ d. `int myList[] [] = {9,6,3,0};`

Question 34

Complete

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Arrays in Java are dynamically allocated using the \_\_\_\_ operator.

- ☐ a. `arrayList`
- ☐ b. `dynamic`
- ☒ c. `new`
- ☐ d. `create`

Question 35

Complete

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Given the following:

`double[][] things =``{ {1.2, 9.0},``{9.2, 0.5, 0.0},``{7.3, 7.9, 1.2, 3.9} };`What is the value of `things[[2].length` ?

- ☒ a. 4
- ☐ b. 2
- ☐ c. 9
- ☐ d. 3

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