Question text

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).

Question 1Answer

a.
strGrid[2][0] = "S";

b.
strGrid[0][2] = "S";

c.
strGrid[3][1] = "S";

d.
strGrid[0][0] = "S";

e.
strGrid[1][3] = "S";

Question text

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

Question 2Answer

a.
new malloc

b.

malloc

○

c.
alloc

◉

d.
new

Question **3**
Complete
Marked out of 1.00

☐   Flag question

Question text
Which of the following is FALSE about arrays on Java?

Question 3Answer

○

a.
Length of array can be changed after creation of array

◉

b.
None of the mentioned

○

c.
Arrays in Java are always allocated on heap

○

d.
A java array is always an object

Question **4**
Complete
Marked out of 1.00

☐   Flag question

Question text
Analyze the following code and choose the correct answer.

int[] arr = new int[5];

arr = new int[6];

Question 4Answer

○

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 has compile errors because the variable arr cannot be changed once it is assigned.

◉

d.
The code can compile and run fine. The second line assigns a new array to arr.

Question **5**
Complete
Marked out of 1.00

☐   Flag question

Question text
What is the result of compiling and running the following code?

```java
public class Test{
        public static void main(String[] args){
                int[] a = new int[0]
                System.out.print(a.length);
        }
}
```

Question 5Answer

◉

a.
0

○

b.
None of the mentioned

○

c.

Compilation error, it is a.length() not a.length

○

d.
Compilation error, arrays cannot be initialized to zero size.

Question **6**
Complete
Marked out of 1.00

☐　　Flag question

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

Question 6Answer

○

a.
int myList[] [] = {5,8,2,0};

○

b.
int [] myList = {"5", "8", "2"};

◉

c.
int [] myList = {5, 8, 2};

○

d.
int [3] myList = (5, 8, 2);

Question **7**
Complete
Marked out of 1.00

☐　　Flag question

Question text
What is the output of the following code fragment:

```
int[] egArray = { 2, 4, 6, 8, 10, 1, 3, 5, 7, 9 };

for ( int index= 0 ; index < egArray.length ; index++ )

  System.out.print(  egArray[ index ] + " "  );
```

Question 7Answer

○

a.
2 4 6 8 10 1 3 5 7 9

○

b.
2 4 6 8 10

○

c.
2 4 6 8 10 1

○

d.
2 4 6 8

Question **8**
Complete
Marked out of 1.00

☐
Flag question

Question text

Given the following code snippet:

float average[] = new float[6];

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

Question 8Answer

○

a.
average[6] is undefined

○

b.
average.length is 6

◉

c.
average[0] is 0.0

○

d.
average[5] is undefined

Question **9**

Complete

Marked out of 1.00

⬜ Flag question

Question text

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

Question 9Answer

○ a.
Integers

○ b.
Loops

○ c.
Fields

◉ d.
Arrays

Question **10**

Complete

Marked out of 1.00

⬜ Flag question

Question text

An array elements are always stored in _____ memory locations.

Question 10Answer

○ a.
Binary search

○ b.
Random

◉ c.

Sequential

○

d.
Sequential and Random

Question **11**
Complete
Marked out of 1.00

☐　　Flag question

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

This creates

Question 11Answer

○

a.
3x5 2D Array

○

b.
2x4 2D Array

◉

c.
5x3 2D Array

○

d.
4x2 2D Array

Question **12**
Complete
Marked out of 1.00

☐　　Flag question

Question text

What is the output of the following code fragment:

```
int[] egArray = { 2, 4, 6, 8, 10, 1, 3, 5, 7, 9 };

for ( int index= 0 ; index < 5 ; index++  )

  System.out.print(  egArray[ index ] + "  " );
```

Question 12 Answer

⊙

a.

2 4 6 8 10

○

b.

2 4 6 8 10 1 3 5 7 9

○

c.

2 4 6 8

○

d.

2 4 6 8 10 1

Question **13**
Complete
Marked out of 1.00

☐   Flag question

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

```
int [][] mat = new int [4][3];
for (int row = 0; row < mat.length; row++) {
   for (int col = 0; col < mat[0].length; col++) {
     if (row < col)
       mat[row][col] = 1;
     else if (row == col)
       mat[row][col] = 2;
     else
       mat[row][col] = 3; } }
```

Question 13 Answer

○

a.

{ {2 1 1 1}, {3 2 1 1}, {3 3 2 1}}

○

b.
{ {2 1 1}, {3 2 1}, {3 3 2}, {3 3 3}}

○

c.
{ {2 3 3 3}, {1 2 3 3}, {1 1 2 3}}

○

d.
{ {2 3 3}, {1 2 3}, {1 1 2}, {1 1 1}}

◉

e.
{ {1 1 1 1}, {2 2 2 2}, {3 3 3 3}}

Question **14**
Complete
Marked out of 1.00

□   Flag question

Question text

What is the length of the following array: byte[] data = { 12, 34, 9, 0, -62, 88 };

Question 14Answer

○

a.
12

◉

b.
6

○

c.
1

○

d.
5

Question **15**
Complete
Marked out of 1.00

□   Flag question

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 ?

Question 15Answer

○

a.
4

○

b.
2

○

c.
9

◉

d.
3

Question **16**
Complete
Marked out of 1.00

☐
      Flag question

What is the output of the following code fragment:

int[] zip = new int[5];

zip[0] = 7;

zip[1] = 3;

zip[2] = 4;

zip[3] = 1;

zip[4] = 9;

System.out.println(zip[2 + 1]);

Question 16Answer

○

a.
4 3

○

b.
4

○

c.
3 7

◉

d.
1

Question **17**
Complete
Marked out of 1.00

☐   Flag question

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

Question 17Answer

○

a.

○

b.
int img;

○

c.
new int img[];

◉

d.
int[] img;

○

e.
int img = int[];

Question text

What is the output of the following code fragment:

```
int[] egArray = { 2, 4, 6, 8, 10, 1, 3, 5, 7, 9 };

for ( int index= 0 ; index < egArray.length ; index = index + 2  )

  System.out.print(  egArray[ index ] + "  "  );
```

Question 18Answer

○

a.
4 8 1 5 9

◉

b.
2 6 10 3 7

○

c.
2 6 10 3 7 0

○

d.
2 4 6 8 10 1 3 5 7 9

Question text

The following code prints:

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

  {

    System.out.print(Arr[0][i]+" ");
```

```
    }
```

Question 19Answer

○

a.
Middle row elements

○

b.
Last row elements

◉

c.
First row elements

○

d.
None of the mentioned

Question **20**
Complete
Marked out of 1.00

☐   Flag question

Question text

What is the output of the following code?

```java
public class Test{
    public static void main(String args[]){
        double[] myList = {1, 5, 5, 5, 5, 1};
        double max = myList[0];
        int indexOfMax = 0;
        for(int i = 1; i < myList.length; i++){
            if(myList[i] > max){
                max = myList[i];
                indexOfMax = i;
            }
        }
        System.out.println(indexOfMax);
    }
```

}

Question 20Answer

○ a.
2

◉ b.
1

○ c.
0

○ d.
4

○ e.
3

Question **21**
Complete
Marked out of 1.00

☐   Flag question

Question text

After the declaration:

char[] c = new char[100];

What is the vale of c[50]?

Question 21Answer

○ a.
'\u0020'

◉ b.
'\u0000'

○

c.

50

○

d.

49

Question **22**

Complete

Marked out of 1.00

☐   Flag question

Question text

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 ?

Question 22Answer

◉

a.

4

○

b.

9

○

c.

3

○

d.

2

Question **23**

Complete

Marked out of 1.00

☐   Flag question

Fill in the blanks of the following code fragment so that the elements of the array are printed in reverse order, starting with the last element.

```
int[] egArray = { 2, 4, 6, 8, 10, 1, 3, 5, 7, 9 };

for ( int index= _____ ; _____ ; _____ )

  System.out.print(  egArray[ index ] + " " );
```

Question 23Answer

○

a.
index = length; index < 0; index--

○

b.
index = length-1; index > 0; index--

○

c.
index = 0; index < egArray.length; index--

◉

d.
index = egArray.length-1; index >= 0; index--

Question **24**
Complete
Marked out of 1.00

☐   Flag question

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

Question 24Answer

◉

a.
length

○

b.
distance

○

c.
width

○

d.
size

Question text

You want to create a table that looks like:

12 -9 8

7 14

-32 -1 0

Which of the following will work?

Question 25Answer

◉

a.
double[][] table =

  { {12, -9, 8},

    {7, 14, 0},

    -32, -1, 0} };

○

b.
double[][] table =

  { {12, -9, 8}

    {7, 14, 0}

    {-32, -1, 0} };

○

c.

```
double[][] table =
 { {12, -9, 8}
   {7, 14}
   {-32, -1, 0} };
```

○

d.
```
double[][]  table =
 { 12, -9, 8,
   7, 14,
   -32, -1, 0} ;
```

Question **26**
Complete
Marked out of 1.00

☐   Flag question

Question text

Determine output:

```
public class Test{
    public static void main(String[] args){
        int[] x = {1, 2, 3, 4};
        int[] y = x;

        x = new int[2];

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

Question 26Answer

○

a.

0 0 0 0

○

b.

1 2 3 4

○

c.

0 0

◉

d.

1 2

Question **27**

Complete

Marked out of 1.00

☐   Flag question

Question text

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];

}

Question 27Answer

○

a.

4

○

b.

12

○

c.
10

○

d.
9

◉

e.
8

Question **28**
Complete
Marked out of 1.00

☐   Flag question

Question text

The following code prints:

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

{

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

}
```

Question 28Answer

◉

a.
Last row elements

○

b.
Middle row elements

○

c.
First row elements

○

d.
None of the mentioned

Question **29**
Complete
Marked out of 1.00

Question text

Java array indices start at

Question 29Answer

○ a.

○ b.

◉ c.
0

○ d.
1

Question **30**
Complete
Marked out of 1.00

Question text

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]);

Question 30Answer

○ a.
2 8

○ b.

23 2

○

c.
23 4

○

d.
21

Question **31**
Complete
Marked out of 1.00

☐   Flag question

Question text

 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.

Question 31Answer

○

a.
ArrayOutOfBoundsException

◉

b.
ArrayIndexOutOfBoundsException

○

c.
ArraysIndexOutOfBoundsException

○

d.
ArrayIndexIsOutOfBoundsException

Question **32**
Complete
Marked out of 1.00

☐   Flag question

Question text

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

Question 32Answer

○

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 **33**
Complete
Marked out of 1.00

☐   Flag question

The ith element in the array has an index:

Question 33Answer

○

a.
i-1

○

b.
None of the mentioned

◉

c.
i

○

d.
i+1

Question **34**
Complete
Marked out of 1.00

☐   Flag question

The following code declares a character array with 3 rows and 5 columns:

Question 34Answer

○

a.
char [] [] matrix = [3,5]

○

b.
int matrix = new char[3][5];

◉

c.
char [] [] matrix;

matrix = new char[3][5];

○

d.
matrix = new char[3, 5];

Question **35**
Complete
Marked out of 1.00

☐   Flag question

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[[2][[1] ?

Question 35Answer

○

a.
7.3

○

b.

9.2

○

c.
There is no such array element

◉

d.
7.9