

# java Array

\* Indicates required question

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1. Email \*

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2. Section \*

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3. Name \*

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4. Class Roll Number \*

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5. 1

\*

1 point

What is a possible output of the following code?

```
String[] strings = new String[2];  
System.out.println(strings);
```

*Mark only one oval.*

- ☐ a) [null, null]
- ☐ b) [.]
- ☐ c) [Ljava.lang.String;@74a14482
- ☐ d) None of the above

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6. 2 Which is not a true statement about an array? \*

1 point

*Mark only one oval.*

- ☐ a) An array expands automatically when it is full.
- ☐ b) An array is allowed to contain duplicate values.
- ☐ c) An array understands the concept of ordered elements.
- ☐ d) An array uses a zero index to reference the first element.

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7. 3. How many of the following are legal declarations? \*

1 point

```
float[] lion = new float[];  
float[] tiger = new float[1];  
float[] bear = new[] float;  
float[] cat = new[1] float;
```

*Mark only one oval.*

- ☐ a) None
- ☐ b) One
- ☐ c) Two
- ☐ d) Three

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8. 4. How many of the following are legal declarations? \*

1 point

```
String lion [] = new String[] {"lion"};  
String tiger [] = new String[1] {"tiger"};  
String bear [] = new String[] {};  
String cat [] = new String[0] {};
```

*Mark only one oval.*

- ☐ a) None
- ☐ b) One
- ☐ c) Two
- ☐ d) Three

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9. 5. Which of the following creates an empty two-dimensional array with dimensions 2×2? \* 1 point

*Mark only one oval.*

- ☐ a) `int[][] blue = new int[2, 2];`
- ☐ b) `int[][] blue = new int[2], [2];`
- ☐ c) `int[][] blue = new int[2][2];`
- ☐ d) `int[][] blue = new int[2 x 2];`

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10. 6. How do you determine the number of elements in an array? \* 1 point

**`int buses[] = new int[5];`**

*Mark only one oval.*

- ☐ a) `buses.length`
- ☐ b) `buses.length()`
- ☐ c) `buses.size`
- ☐ d) `buses.size()`

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11. 7. How many of the following are legal declarations? \*

1 point

**double lion , []deer;**  
**double[] tiger;**  
**double bear[];**

*Mark only one oval.*

- ☐ a) None
- ☐ b) One
- ☐ c) Two
- ☐ d) Three

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12. 8. What happens if you try to access an array element with an index that is out of bounds? \*

1 point

*Mark only one oval.*

- ☐ a) A runtime exception is thrown
- ☐ b) The program terminates abruptly
- ☐ c) The element value is set to null
- ☐ d) The element value is set to 0

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13. 9. What is the index range for the elements of an array in Java? \*

0 points

*Mark only one oval.*

- ☐ a) 0 to length - 1
- ☐ b) 1 to length
- ☐ c) -1 to length - 1
- ☐ d) 0 to length

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14. 10. How do you declare (recommended) an array in Java? \*

1 point

*Mark only one oval.*

- ☐ a) `int[] arr;`
- ☐ b) `int arr[];`
- ☐ c) `int arr;`
- ☐ d) `Array<int> arr;`

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15. What is an Array in Java? \*

1 point

*Mark only one oval.*

- ☐ a) A collection of elements with different types
- ☐ b) A collection of elements with the same type
- ☐ c) A resizable data structure
- ☐ d) A container for storing key-value pairs

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## Array

16. Which one of the following is a valid statement \*

1 point

*Mark only one oval.*

- ☐ A. `char[] c = new char();`
- ☐ B. `char[] c = new char[5];`
- ☐ C. `char[] c = new char(4);`
- ☐ D. `char[] c = new char[];`

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17. In java arrays are \*

1 point

*Mark only one oval.*

- ☐ A. objects
- ☐ B. object references
- ☐ C. primitive data type
- ☐ D. None of the above

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## Array

18. What will be the output of the following Java code?

\*

1 point

```
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);
    }
}
```

*Mark only one oval.*

- ☐ a) 8
- ☐ b) 9
- ☐ c) 10
- ☐ d) 11

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19. What will be the output of the following Java code? \*

1 point

```
class array_output
{
    public static void main(String args[])
    {
        char array_variable [] = new char[10];
        for (int i = 0; i < 10; ++i)
        {
            array_variable[i] = 'i';
            System.out.print(array_variable[i] + "");
        }
    }
}
```

*Mark only one oval.*

- ☐ a) 1 2 3 4 5 6 7 8 9 10
- ☐ b) 0 1 2 3 4 5 6 7 8 9 10
- ☐ c) i j k l m n o p q r
- ☐ d) i i i i i i i i i i

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20. What will be the output of the following Java code? \*

1 point

```
class evaluate
{
    public static void main(String args[])
    {
        int arr[] = new int[] {0 , 1, 2, 3, 4, 5, 6, 7, 8, 9};
        int n = 6;
        n = arr[arr[n] / 2];
        System.out.println(arr[n] / 2);
    }
}
```

*Mark only one oval.*

- ☐ a) 3
- ☐ b) 0
- ☐ c) 6
- ☐ d) 1

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21. What will be the output of the following Java code? \*

1 point

```
class array_output
{
    public static void main(String args[])
    {
        int array_variable [] = new int[10];
        for (int i = 0; i < 10; ++i)
        {
            array_variable[i] = i;
            System.out.print(array_variable[i] + " ");
            i++;
        }
    }
}
```

*Mark only one oval.*

- ☐ a) 0 2 4 6 8 .
- ☐ b) 1 3 5 7 9
- ☐ c) 0 1 2 3 4 5 6 7 8 9
- ☐ d) 1 2 3 4 5 6 7 8 9 10

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22. Which of these is necessary to specify at time of array initialization? \*

1 point

*Mark only one oval.*

- ☐ a) Row
- ☐ b) Column
- ☐ c) Both Row and Column
- ☐ d) None of the mentioned

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23. Which of these is an incorrect Statement? \*

1 point

*Mark only one oval.*

- ☐ a) It is necessary to use new operator to initialize an array
- ☐ b) Array can be initialized using comma separated expressions surrounded by curly braces
- ☐ c) Array can be initialized when they are declared
- ☐ d) None of the mentioned

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## Array

24. What will be the output of the following Java code? \*

1 point

```
int arr[] = new int [5];  
System.out.print(arr);
```

*Mark only one oval.*

- ☐ a) 0
- ☐ b) value stored in arr[0]
- ☐ c) 00000
- ☐ d) Class name@ hashCode in hexadecimal form

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25. Which of these is an incorrect array declaration? \*

1 point

*Mark only one oval.*

- ☐ a) `int arr[] = new int[5]`
- ☐ b) `int [] arr = new int[5]`
- ☐ c) `int arr[] = new int[5]`
- ☐ d) `int arr[] = int [5] new`

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26. Which of these operators is used to allocate memory to array variable in Java? \* 1 point

*Mark only one oval.*

- ☐ a) `malloc`
- ☐ b) `alloc`
- ☐ c) `new`
- ☐ d) `new malloc`

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