**MCQ – Arrays**

**1. What is the index of the first element in a Java array?**

A) -1  
B) 0  
C) 1  
D) It depends on the array type

**2. Which of the following is the correct way to declare an array in Java?**

A) int arr[] = new int();  
B) int arr = new int[5];  
C) int[] arr = new int[5];  
D) array<int> arr = new array<int>(5);

**3. What will happen if you try to access an array index out of bounds?**

A) Compile-time error  
B) The value will be null  
C) ArrayIndexOutOfBoundsException  
D) Undefined behavior

**4. How do you find the length of an array in Java?**

A) arr.size()  
B) arr.length()  
C) arr.length  
D) length(arr)

**5. Which class provides utility methods for arrays?**

A) Collections  
B) ArrayUtils  
C) Arrays  
D) ArrayList

**6. Which method is used to sort an array in Java?**

A) Collections.sort()  
B) Arrays.order()  
C) Arrays.sort()  
D) sort(arr)

**7. What will Arrays.equals(arr1, arr2) return if the contents are the same but the references are different?**

A) false  
B) true  
C) compile-time error  
D) exception

**8. What is the output of: System.out.println(Arrays.toString(new int[]{1, 2, 3}));?**

A) 1 2 3  
B) [1, 2, 3]  
C) {1,2,3}  
D) 1,2,3

**9. What is the result of Arrays.binarySearch(new int[]{1, 3, 5}, 3);?**

A) 0  
B) 1  
C) 2  
D) -1

**10. Which method is used to copy an array?**

A) Arrays.clone()  
B) Arrays.copy()  
C) Arrays.copyOf()  
D) copyArray()

**11. What is the default value for an uninitialized int array element?**

A) null  
B) 0  
C) undefined  
D) -1

**12. Can you resize an array once it's created in Java?**

A) Yes  
B) No  
C) Only if it's an array of objects  
D) Only with ArrayList

**13. Which of the following is used to compare multidimensional arrays deeply?**

A) Arrays.equals()  
B) Arrays.deepEquals()  
C) Arrays.compare()  
D) equals()

**14. What is returned by Arrays.binarySearch() if the element is not found?**

A) -1  
B) 0  
C) A negative value -433 -444 -2222  
D) An exception

**15. Which method is used for parallel sorting of arrays in Java 8+?**

A) Arrays.parallelSort()  
B) Arrays.multiSort()  
C) Arrays.quickSort()  
D) Arrays.asyncSort()

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