HowToDoInJava

# Java Array Tutorials

Last Updated: May 22, 2022 By: Lokesh Gupta Series Series

Arrays in Java, conceptually, are no different than in other programming languages.

- Arrays are contiguous memory locations storing only one type of item in a sequence.
- Arrays provide index-based access i.e. the first element of the array is stored at the `0th` index, 2nd element is stored on `1st` index and so on.
- Note that, in Java, arrays are also objects that inherit the `Object` class, and implement the Serializable as well as Cloneable interfaces.
- We can store all kinds of primitive values or objects in an array.
- Java supports single dimentional or multi-dimentional arrays, both.

The java.util.Arrays class provides many useful *static* methods to work with arrays and perform common operations on them.

## 1. Array Basics

- Intro to Java Arrays
- Initialize an Array
- Reverse an Array
- Comparing Two Arrays
- ArrayStoreException

- Printing an Array
- Printing 2D Array

## 2. Array Operations

- Concatenate Two Arrays in Java
- Splitting an Array
- Joining Array Items with Seperator
- Resizing an Array
- Removing Items from Array
- Remove Duplicates from Array
- Union of Two Arrays
- Intersection of Two Arrays

## 3. Searching and Sorting

- How to Check is Array Contains an Item
- Find Top N items in Array
- Find Sum and Average of Array
- Find Max/Min in Array
- Sorting an Array
- Checking if array is already sorted?

## 4. Conversions

- Array of Primitives to Array to objects
- Convert between Array and List
- Convert between Stream and Array

- Java String to String Array

## 5. Advance Topics

- Java Array Clone
- Java Array Copy
- Java Array Deep Copy
- Java Copy Array Range

Happy Learning !!

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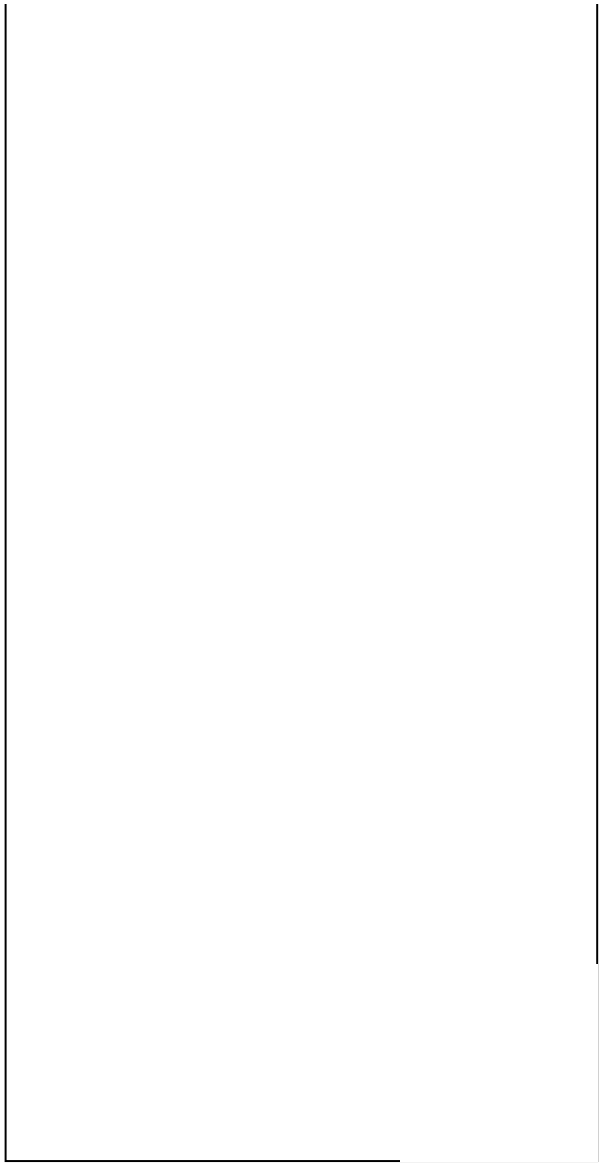

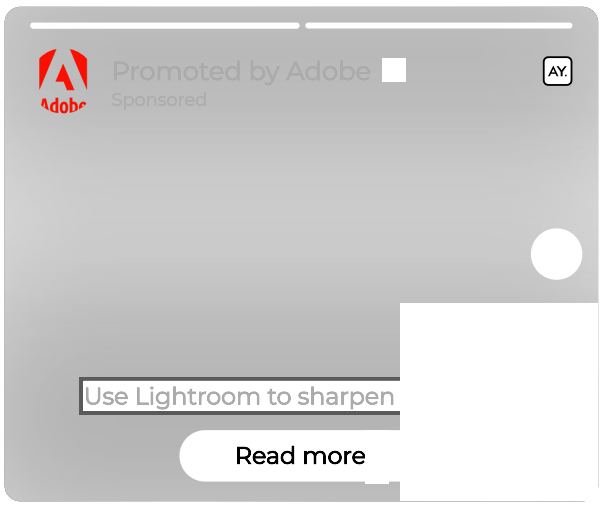
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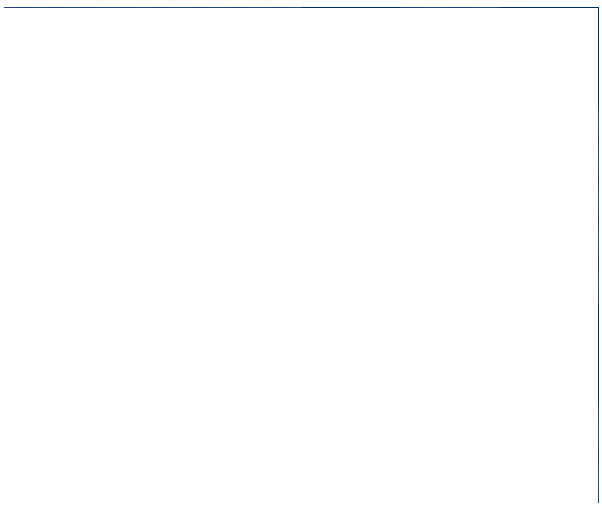

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