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[**Array** 1](#_Toc509961358)

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| **Array** |
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| What is Array? |
| Array stores a fixed-size sequential collection of elements of the same type.  The array elements are accessed through the index. Array indices are 0-based; that is, they start from 0 to arrayRefVar.length-1. |
| How to declare and create array? |
| Declaring and creating Array in two steps:  Step1 : Declare Array   1. dataType[] arrayRefVar; // preferred way. 2. dataType arrayRefVar[]; // works but not preferred way.   Step2 : Create Array   1. arrayRefVar = new dataType[arraySize];   Declaring and creating Array in one steps:   1. dataType[] arrayRefVar = new dataType[arraySize]; // When values are unknown 2. dataType[] arrayRefVar = new dataType[value0, value1, ..., valuek]; // When values are known |
| Write program to print an array?  Write program to get maximum value of an array?  Write program to get sum of all elements of an array? |
|  |
| What java.util.Arrays class ? |
| The java.util.Arrays class contains below popular methods:   |  | | --- | | **Method & Description in java.util.arrays class** | | [**static <T> List<T> asList(T... a)**](https://www.tutorialspoint.com/java/util/arrays_aslist.htm)  This method returns a fixed-size list backed by the specified array. | | [**static int binarySearch(int[] a, int key)**](https://www.tutorialspoint.com/java/util/arrays_binarysearch_int.htm)  This method searches the specified array of ints for the specified value using the binary search algorithm. The array must be sorted before making this call.If it is not sorted, the results are undefined. | | [**static int binarySearch(Object[] a, Object key)**](https://www.tutorialspoint.com/java/util/arrays_binarysearch_object.htm)  This method searches the specified array for the specified object using the binary search algorithm. | | [**static int[] copyOf(int[] original, int newLength)**](https://www.tutorialspoint.com/java/util/arrays_copyof_int.htm)  This method copies the specified array, truncating or padding with zeros (if necessary) so the copy has the specified length. | | [**static int[] copyOfRange(int[] original, int from, int to)**](https://www.tutorialspoint.com/java/util/arrays_copyofrange_int.htm)  This method copies the specified range of the specified array into a new array. | | [**static boolean deepEquals(Object[] a1, Object[] a2)**](https://www.tutorialspoint.com/java/util/arrays_deepequals.htm)  This method returns true if the two specified arrays are deeply equal to one another. | | [**static int deepHashCode(Object[] a)**](https://www.tutorialspoint.com/java/util/arrays_deephashcode.htm)  This method returns a hash code based on the "deep contents" of the specified array. | | [**static String deepToString(Object[] a)**](https://www.tutorialspoint.com/java/util/arrays_deeptostring.htm)  This method returns a string representation of the "deep contents" of the specified array. | | [**static boolean equals(int[] a, int[] a2)**](https://www.tutorialspoint.com/java/util/arrays_equals_int.htm)  This method returns true if the two specified arrays of ints are equal to one another. | | [**static void fill(int[] a, int val)**](https://www.tutorialspoint.com/java/util/arrays_fill_int.htm)  This method assigns the specified int value to each element of the specified array of ints. | | [**static void sort(int[] a)**](https://www.tutorialspoint.com/java/util/arrays_sort_int.htm)  This method sorts the specified array of ints into ascending numerical order. | | [**static String toString(int[] a)**](https://www.tutorialspoint.com/java/util/arrays_tostring_int.htm)  This method returns a string representation of the contents of the specified array of ints. | |