

JAVA.UTIL.ARRAYS.SORT METHOD

http://www.tutorialspoint.com/java/util/arrays_sort_double_index.htm

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Description

The **java.util.Arrays.sort**(double[] a, *int* fromIndex, *int* toIndex) method sorts the specified range of the specified array of doubles into ascending numerical order. The range to be sorted extends from index *fromIndex*, inclusive, to index *toIndex*, exclusive.

Declaration

Following is the declaration for **java.util.Arrays.sort** method

```
public static void sort(double[] a, int fromIndex, int toIndex)
```

Parameters

- **a** -- This is the array to be sorted.
- **fromIndex** -- This is the index of the first element *inclusive* to be sorted.
- **toIndex** -- This is the index of the last element *exclusive* to be sorted .

Return Value

This method does not return any value.

Exception

- **IllegalArgumentException** -- if fromIndex > toIndex
- **ArrayIndexOutOfBoundsException** -- if fromIndex < 0 or toIndex > a.length

Example

The following example shows the usage of java.util.Arrays.sort method.

```
package com.tutorialspoint;

import java.util.Arrays;

public class ArrayDemo {

    public static void main(String[] args) {

        // initializing unsorted double array
        double dArr[] = {3.1, 1.4, 2.7, 11.5, 8.7};

        // let us print all the elements available in list
        for (double number : dArr) {
            System.out.println("Number = " + number);
        }

        // sorting array from index 0 to 3
        Arrays.sort(dArr, 0, 3);

        // let us print all the elements available in list
        System.out.println("double array with some sorted values(0 to 3) is:");
        for (double number : dArr) {
            System.out.println("Number = " + number);
        }
    }
}
```

Let us compile and run the above program, this will produce the following result:

```
Number = 3.1  
Number = 1.4  
Number = 2.7  
Number = 11.5  
Number = 8.7  
double array with some sorted values(0 to 3) is:  
Number = 1.4  
Number = 2.7  
Number = 3.1  
Number = 11.5  
Number = 8.7
```

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