

JAVA EXAMPLES - ARRAY SORT AND SEARCH

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Problem Description:

How to sort an array and search an element inside it?

Solution:

Following example shows how to use `sort` and `binarySearch` method to accomplish the task. The user defined method `printArray` is used to display the output:

```
import java.util.Arrays;

public class MainClass {
    public static void main(String args[]) throws Exception {
        int array[] = { 2, 5, -2, 6, -3, 8, 0, -7, -9, 4 };
        Arrays.sort(array);
        printArray("Sorted array", array);
        int index = Arrays.binarySearch(array, 2);
        System.out.println("Found 2 @ " + index);
    }
    private static void printArray(String message, int array[]) {
        System.out.println(message
            + ": [length: " + array.length + "]");
        for (int i = 0; i < array.length; i++) {
            if(i != 0){
                System.out.print(", ");
            }
            System.out.print(array[i]);
        }
        System.out.println();
    }
}
```

Result:

The above code sample will produce the following result.

```
Sorted array: [length: 10]
-9, -7, -3, -2, 0, 2, 4, 5, 6, 8
Found 2 @ 5
```

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