```
package datastructure;
import java.util.Arrays;
public class Array {
    public int search(int[] array, int value) {
        // 0, 1, 2, 3, 4, 5
        // 1, 5, 2, 8, 7, 3
        int loc = -1;
        for (int i = 0; i < array.length; i++) {
            if (array[i] == value) {
                loc = i;
                break;
            }
        }
        return loc;
    }

    public int[] deleteElement(int[] array, int value) {
        // 0, 1, 2, 3, 4,  5, 6
        // 1, 5, 2, 8, 15, 7, 3
        int loc = search(array, value);
        if (loc >= 0) {
            for (int i = loc + 1; i < array.length; i++) {
                array[i - 1] = array[i];
            }
        }
        return Arrays.copyOf(array, array.length - 1);
    }
```

```
public void printAllElement(String msg, int[] arr) {
    System.out.print(msg);
    for (int i = 0; i < arr.length; i++) {
        System.out.print(" " + arr[i]);
    }
    System.out.println();
}
//                                          4           15
public int[] addElement(int[] array, int position, int value) {
    // 0, 1, 2, 3, 4, 5
    // 1, 5, 2, 8, 7, 3
    int[] result = new int[array.length + 1];
    for (int i = 0; i < position; i++) {
        result[i] = array[i];
    }
    result[position] = value;
    for (int i = position + 1; i < result.length; i++) {
        result[i] = array[i - 1];
    }
    return result;
}
public static void main(String[] args) {
    // index      0, 1, 2, 3, 4, 5
    int arr[] = { 1, 5, 2, 8, 7, 3 };
    System.out.println(arr[3]);
    Array array = new Array();

    // Adding new element to the Array
```

```
        array.printAllElement("All Element before adding  :: ", arr);
        arr = array.addElement(arr, 4, 15);
        array.printAllElement("All Element after  adding  :: ", arr);
        System.out.println("-------------------------------------------");

        // Search element from Array
        int index = array.search(arr, 100);
        System.out.println("Value found at :: " + index);
        System.out.println("-------------------------------------------");

        // Delete the element from Array
        array.printAllElement("All Element before delete  :: ", arr);
        arr = array.deleteElement(arr, 7);
        array.printAllElement("All Element after  delete  :: ", arr);
    }
}
```