~\OneDrive - VietNam National University - HCM INTERNATIONAL UNIVERSITY\Desktop\DSA\DSA LAB NEW\Lab 1 OOP Reviews & Arrays\ITITSB22029_DoMinhDuy_Lab1\Problem 2\Problem 2.ii\LowArray.java

```java
1    // LowArray.java
2    // demonstrates array class with low-level interface
3    /////
4    class LowArray {
5        private long[] a; // Refer to array a
6
7        public LowArray(int size) {
8            a = new long[size]; // Create array
9        }
10
11       public void setElem(int index, long value) {
12           a[index] = value; // Setter
13       }
14
15       public long getElem(int index) {
16           return a[index]; // Getter
17       }
18
19       public static void main(String[] args) {
20           LowArray arr;
21           arr = new LowArray(100);
22           int nElems = 0;
23           int j;
24
25           arr.setElem(0, 77); // insert 10 items
26           arr.setElem(1, 99);
27           arr.setElem(2, 44);
28           arr.setElem(3, 55);
29           arr.setElem(4, 22);
30           arr.setElem(5, 88);
31           arr.setElem(6, 11);
32           arr.setElem(7, 00);
33           arr.setElem(8, 66);
34           arr.setElem(9, 33);
35           nElems = 10;
36
37           for (j = 0; j < nElems; j++) {
38               System.err.println(arr.getElem(j) + " ");
39           }
40           System.out.println("");
41
42           // Find and display
43           int searchKey = 26;
44           for (j = 0; j < nElems; j++) {
45               if (arr.getElem(j) == searchKey) {
46                   break;
47               }
```

```java
48            }
49            if (j == nElems) {
50                System.out.println("Can not find " + searchKey);
51            } else {
52                System.out.println("Found" + searchKey);
53            }
54
55            // Delete 55
56            for (j = 0; j < nElems; j++) {
57                if (arr.getElem(j) == 55) {
58                    break;
59                }
60            }
61
62            for (int k = j; k < nElems; k++) {
63                arr.setElem(k, arr.getElem(k + 1));
64            }
65            nElems--;
66
67            for (j = 0; j < nElems; j++) {
68                System.out.println(arr.getElem(j) + " ");
69            }
70            System.out.println("");
71        }
72 }
```