*Java Program.txt - Notepad

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```
import java.util.*;

public class merge {
    public static void main(String args[]) {
        Scanner scanner = new Scanner(System.in);
        ArrayList<Integer> sum = new ArrayList<>();

        System.out.print("Enter size: ");
        int a=scanner.nextInt();

        System.out.println("Enter " + a + " elements:");
        for (int i = 0; i < a; i++) {
            sum.add(scanner.nextInt());
        }

        System.out.print("Insert element: ");
        int element = scanner.nextInt();

        System.out.print("Insert at index: ");
        int index = scanner.nextInt();

        if (index >= 0 && index <= sum.size()) sum.add(index, element);
        System.out.println("After insert: " + sum);

        System.out.print("Delete index: ");
        int delete = scanner.nextInt();
        if (delete >= 0 && delete < sum.size()) sum.remove(delete);
        System.out.println("After delete: " + sum);
```

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```
        System.out.print("Insert element: ");
        int element = scanner.nextInt();

        System.out.print("Insert at index: ");
        int index = scanner.nextInt();

        if (index >= 0 && index <= sum.size()) sum.add(index, element);
        System.out.println("After insert: " + sum);

        System.out.print("Delete index: ");
        int delete = scanner.nextInt();
        if (delete >= 0 && delete < sum.size()) sum.remove(delete);
        System.out.println("After delete: " + sum);


        System.out.print("2nd array size: ");
        int m = scanner.nextInt();

        System.out.println("Enter " + m + " elements:");
        for (int i = 0; i < m; i++) {
            sum.add(scanner.nextInt());
        }

        System.out.println("After merge: " + sum);
    }
}
```

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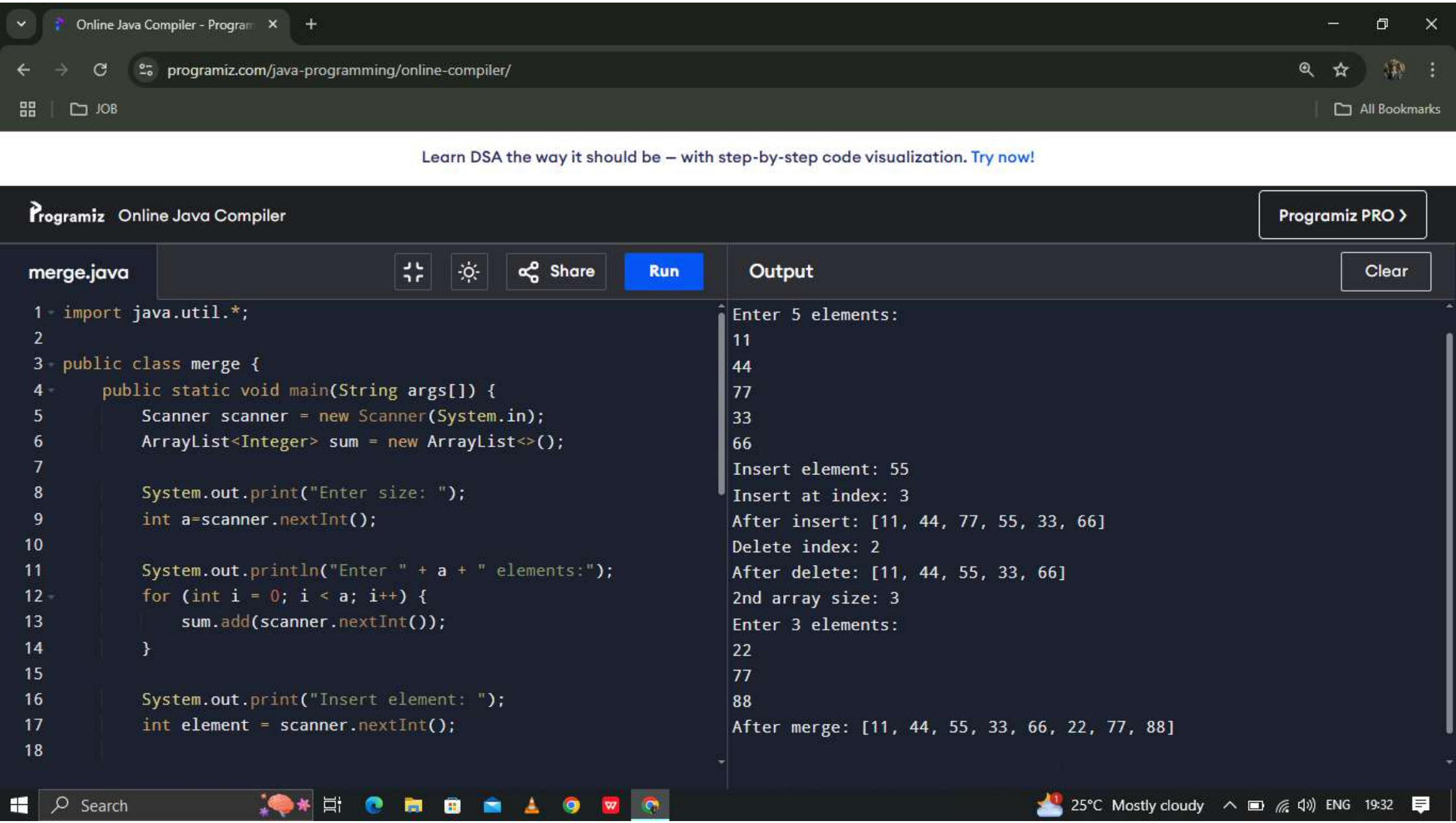
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merge.java
Share
Run
Output
Clear
1 import java.util.*;
2
3 public class merge {
4 public static void main(String args[]) {
5 Scanner scanner = new Scanner(System.in);
6 ArrayList<Integer> sum = new ArrayList<>();
7
8 System.out.print("Enter size: ");
9 int a=scanner.nextInt();
10
11 System.out.println("Enter " + a + " elements:");
12 for (int i = 0; i < a; i++) {
13 sum.add(scanner.nextInt());
14 }
15
16 System.out.print("Insert element: ");
17 int element = scanner.nextInt();
18
Enter 5 elements:
11
44
77
33
66
Insert element: 55
Insert at index: 3
After insert: [11, 44, 77, 55, 33, 66]
Delete index: 2
After delete: [11, 44, 55, 33, 66]
2nd array size: 3
Enter 3 elements:
22
77
88
After merge: [11, 44, 55, 33, 66, 22, 77, 88]
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ENG
19:32

*Java Program.txt - Notepad

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```
import java.util.Scanner;

public class Sri {
    public static void main(String args[]) {
        Scanner scanner = new Scanner(System.in);

        System.out.print("Enter number of elements: ");
        int num = scanner.nextInt();

        int arr[] = new int[num];
        System.out.println("Enter " + num + " elements:");
        for (int i = 0; i < num; i++) {
            arr[i] = scanner.nextInt();
        }

        System.out.print("Enter number to search: ");
        int target = scanner.nextInt();

        for (int i = 0; i < num; i++) {
            if (arr[i] == target) {
                System.out.println("Found at index: " + i);
                boolean found = true;
                break;
            }
        }

        boolean sort = true;
        for (int i = 1; i < num; i++) {
            if (arr[i] < arr[i - 1]) {
                sort = false;
                break;
            }
        }
        System.out.println("Array is sorted: " + sort);
```

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*Java Program.txt - Notepad

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```
            }
        }
        System.out.println("Array is sorted: " + sort);

        int largest = Integer.MIN_VALUE;
        int small = Integer.MIN_VALUE;
        for (int i = 0; i < num; i++) {
            if (arr[i] > largest) {
                small = largest;
                largest = arr[i];
            } else if (arr[i] > small && arr[i] != largest) {
                small = arr[i];
            }
        }
        if (small == Integer.MIN_VALUE) {
            System.out.println("Second largest not found (all elements may be equal)");
        } else {
            System.out.println("Second largest number: " + small);
        }

        int max = arr[0];
        int min = arr[0];
        for (int i = 1; i < num; i++) {
            if (arr[i] > max) {
                max = arr[i];
            }
            if (arr[i] < min) {
                min = arr[i];
            }
        }
        System.out.println("Maximum: " + max);
        System.out.println("Minimum: " + min);
    }
}
```

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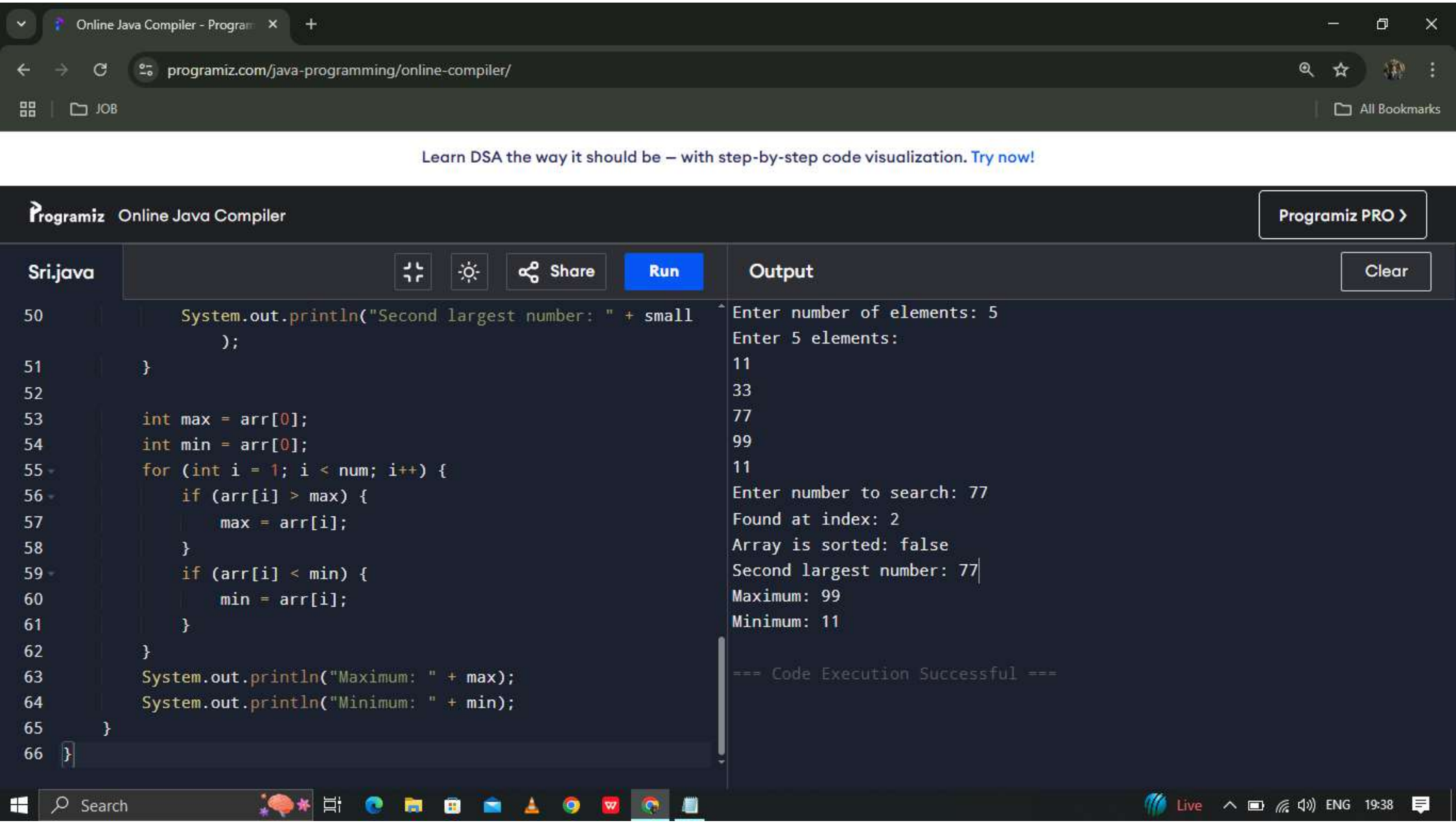
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Sri.java
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50 System.out.println("Second largest number: " + small
);
51 }
52
53 int max = arr[0];
54 int min = arr[0];
55 for (int i = 1; i < num; i++) {
56 if (arr[i] > max) {
57 max = arr[i];
58 }
59 if (arr[i] < min) {
60 min = arr[i];
61 }
62 }
63 System.out.println("Maximum: " + max);
64 System.out.println("Minimum: " + min);
65 }
66 }
Enter number of elements: 5
Enter 5 elements:
11
33
77
99
11
Enter number to search: 77
Found at index: 2
Array is sorted: false
Second largest number: 77
Maximum: 99
Minimum: 11
=== Code Execution Successful ===
Search
Live
ENG
19:38