EXPERIMENT LIST FOR PROGRAMMING ABILITY AND LOGIC BUILDING – 2

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BATCH : 2CSE5

ROLL NUMBER :

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WEEK : 19/1/26 -

25/1/26 LECTURE : 1

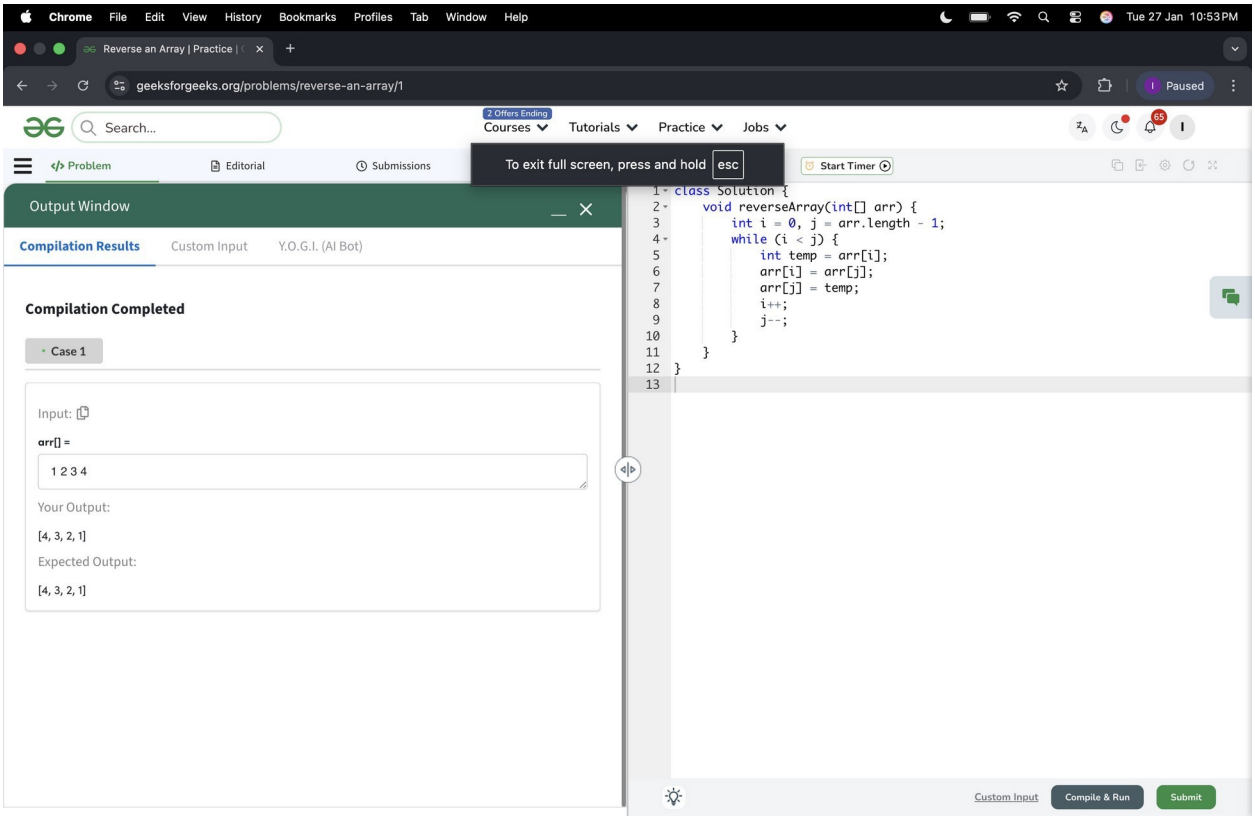
EXPERIMENT 1

You are given an array of integers arr[]. You have to reverse the given array. Note:

Modify the array in place.

EXAMPLE

INPUT arr = [1, 4, 3, 2, 6, 5]OUTPUT[5, 6, 2, 3, 4, 1]Explanation: The

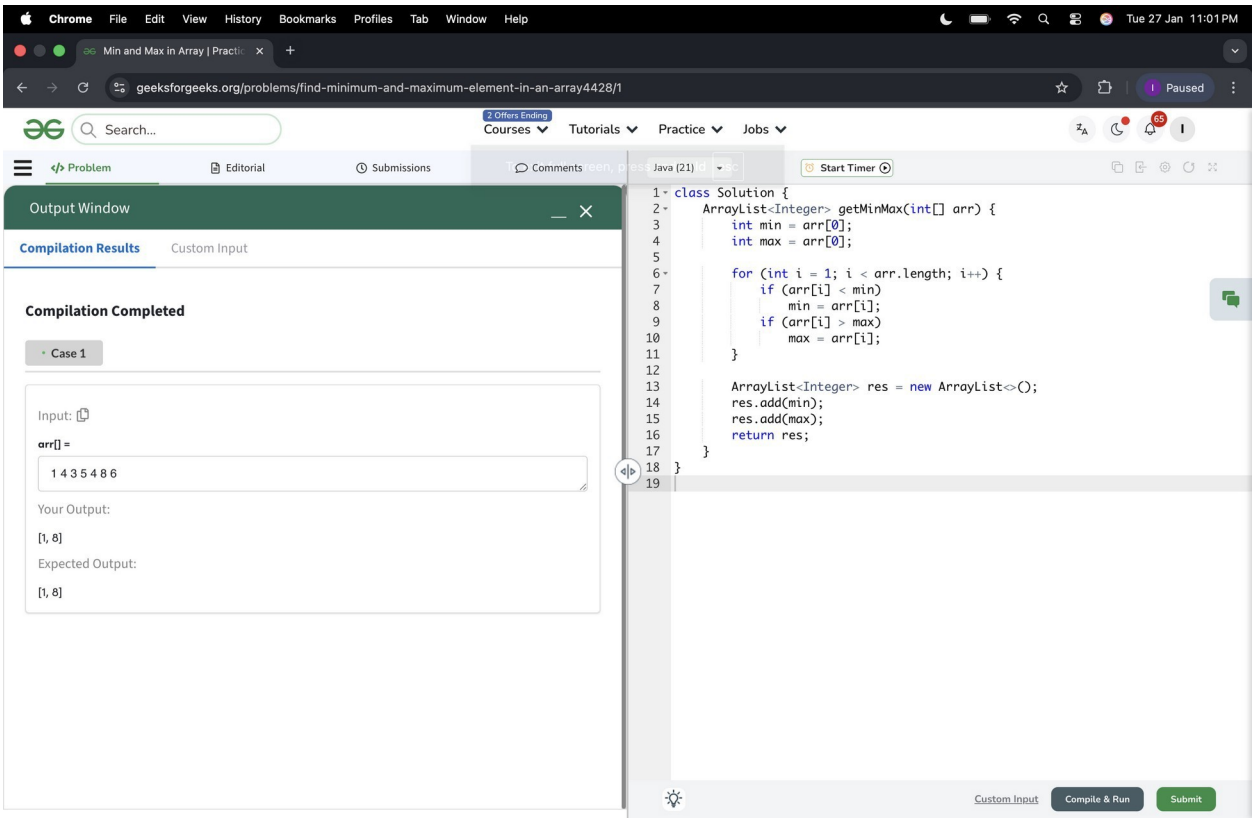


elements of the array are [1, 4, 3, 2, 6, 5]. After reversing the array, the first element goes to the last position, the second element goes to the second last position and so on. Hence, the answer is [5, 6, 2, 3, 4, 1].

EXPERIMENT 2

Given an array arr[]. Your task is to find the minimum and maximum elements in the array.

Examples:



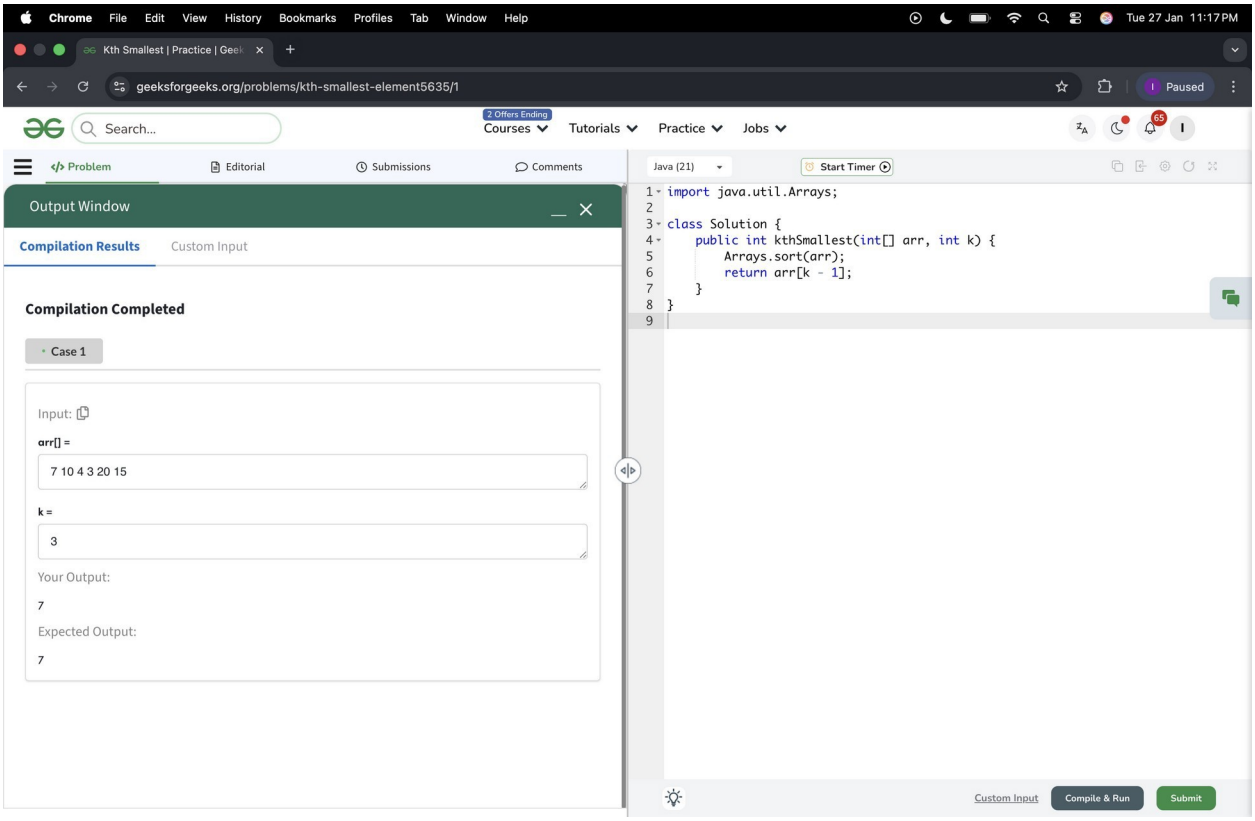
Input: arr[] = [1, 4, 3, 5, 8, 6]Output: [1, 8]Explanation: minimum and maximum elements of array are 1 and 8.

EXPERIMENT 3

Given an integer array arr[] and an integer k, your task is to find and return the kth smallest element in the given array.

Note: The kth smallest element is determined based on the sorted order of the array.

Examples :



Input: arr[] = [10, 5, 4, 3, 48, 6, 2, 33, 53, 10], k = 4Output: 5Explanation: 4th smallest element in the given array is 5.

EXPERIMENT 4

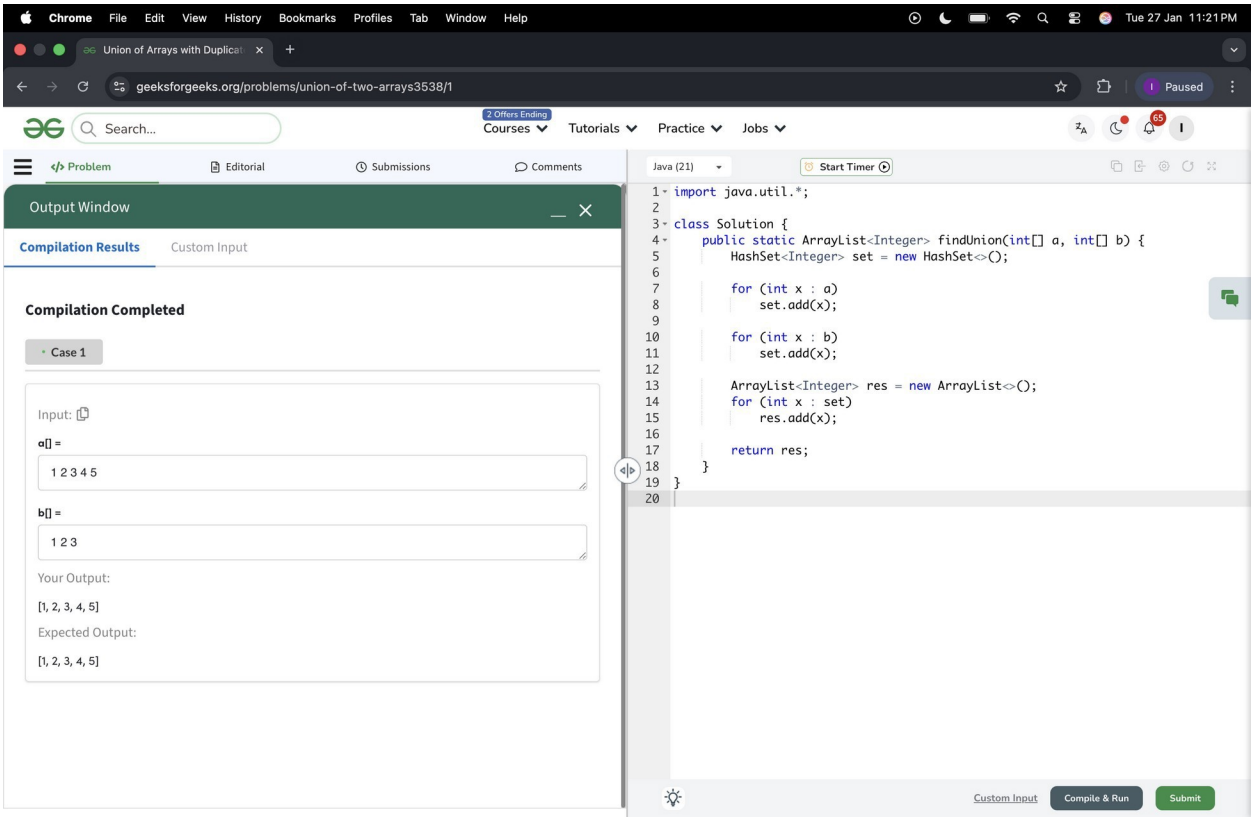
You are given two arrays a[] and b[], return the Union of both the arrays in any order.

The Union of two arrays is a collection of all distinct elements present in either of the arrays. If an element appears more than once in one or both arrays, it should be included only once in the result.

Note: Elements of a[] and b[] are not necessarily distinct.Note that, You can return the Union in any order but the driver code will print the result in sorted order only.

Examples:

Input: a[] = [1, 2, 3, 2, 1], b[] = [3, 2, 2, 3, 3, 2]Output: [1, 2, 3]Explanation: Union set of both the arrays will be 1, 2 and 3.



EXPERIMENT 5

Given an array arr[]. The task is to find the largest element and return it. Examples:

Input: arr[] = [1, 8, 7, 56, 90]Output: 90Explanation: The largest element of the given array is 90.

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C 0 geeksforgeeks org/problems/largest-element-1n-array4009/Q?utm_source=youtube&utm_med1um=collab_str1ver_ytdescnpt1on&utm_campa1gn=largest-eleme 0

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</>Problem Editorial (!) Submissions DComments Java(21) StartTimer0

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2 •     publi.c i.nt largest(i.nt[J arr) {
3       i.nt max = arr[0];
4 ·     for (i.nt i. = 1; i. < arr.length; i.++) {
5       if (arr[i] > max)
6       max = arr[i.J;
7
8       return max;
9
10
11
```

Output Window

Compilation Results Custom Input

Compilation Completed

Case1

Input: (0
orrl)=

1875690

Your Output:

90

Expected Output:

90