Aror University of Art, Architecture, Design & Heritage Sukkur

Department of AI-Multimedia and Gaming

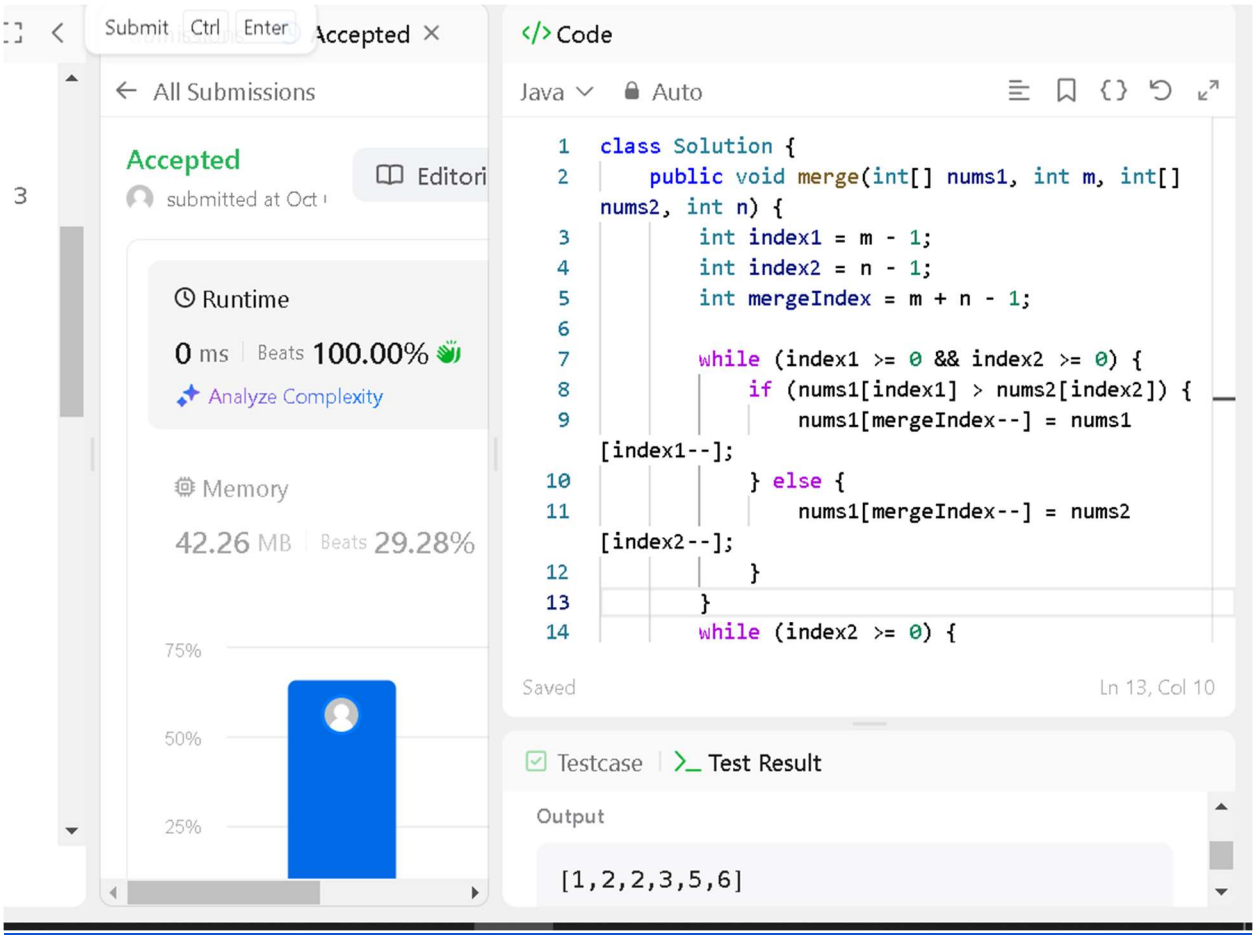
Lab 6: Sorting: Bubble Sort Date:01 Oct, 2024

Subject: Data Structure (CSC221), Fall 2024 Instructor: Abdul Ghafoor

Lab objectives: The objective of this lab is to understand and implement the Bubble Sort algorithm.

- **Leet Code**

https://leetcode.com/problems/merge-sorted-array/description/?envType=problem-list-v2&envId=sorting



https://leetcode.com/problems/intersection-of-two-arrays-ii/description/?envType=problem-list-v2&envId=sorting

```
class Solution {
    public int[] intersect(int[] nums1, int[] nums2) {
        int[] count = new int[1001];
        List<Integer> intersectionList = new ArrayList<>();


        for (int num : nums1) {
            count[num]++;
        }


        for (int num : nums2) {
            if (count[num] > 0) {
                intersectionList.add(num);
                count[num]--;
            }
        }
```

Saved

Testcase | Test Result

Output

```
[2,2]
```

https://leetcode.com/problems/find-the-difference/description/?envType=problem-list-v2&envId=sorting

```java
class Solution {
    public int[] intersect(int[] nums1, int[] nums2) {
        int[] count = new int[1001];
        List<Integer> intersectionList = new ArrayList<>();


        for (int num : nums1) {
            count[num]++;
        }


        for (int num : nums2) {
            if (count[num] > 0) {
                intersectionList.add(num);
                count[num]--;
            }
        }
```

Saved

Testcase | Test Result

Output

```
[2,2]
```