School of Computing Science & Engineering Subject: Advanced Data Structures and Algorithms (E2UC503B)

Programming Assignment 1

Last Date: September 15, 2024

Write algorithms, program of following problems. Also find the time and space complexity of each algorithm.

- 1. Find the largest element in a given array.
- 2. Reverse a given array.
- 3. Find the second largest element in a given array
- 4. Check if a given array is sorted
- 5. Remove duplicates from a given array
- 6. Rotate a given array
- 7. Find the frequency of elements in a given array
- 8. Merge two sorted arrays