

American International University-Bangladesh

Data Structure Lab [G]

Summer 2022-23

Lab Tasks 02 || 2D Array

1. Write a C++ program to initialize and display a 2D array of integers.
2. Implement a function in C++ to calculate the sum of all elements in a 2D array.
3. Write a C++ program to find the largest element in a 2D array.
4. Implement a function in C++ to count the number of rows in a 2D array.
5. Write a C++ program to find the average value of each row in a 2D array.
6. Implement a function in C++ to search for a specific element in a 2D array and return its position.
7. Write a C++ program to multiply two 2D arrays and store the result in a third array.
8. Implement a function in C++ to check if a given 2D array is square (i.e., number of rows equals number of columns).
9. Write a C++ program to sort the elements of each row in a 2D array in ascending order.
10. Implement a function in C++ to find the minimum element in a specific row of a 2D array.