

Data Structures Lab

Lab 1 Tasks

Develop a C++ program that employs pointer functions to accomplish the following tasks on an array:

- Implement a function that displays all the elements in the array without directly using array indexes or normal variables.
- Create a function that prompts the user to enter a number and then determines whether the sum of all elements in the array is equal to that number.
- Create a function that swaps the positions of elements in the array. Specifically, elements at even indices should be swapped with the subsequent odd indices, and vice versa.

Ensure that these functions are called through pointers rather than direct invocation.

Additionally, the program should prompt the user to input the size of the array, and the entered size must be an even number.