Assignment

1. Write a C program to swap two numbers using pointers.
2. Write a C program to find the smallest number in an array using pointers.
3. Create a C function that takes an array and its size as parameters, then uses pointer arithmetic to reverse the array in place.
4. Implement a C program that uses a function pointer to sort an array of integers. Allow the user to choose between ascending and descending order.
5. Write a C program that creates an array of pointers to strings, then sorts the strings alphabetically using pointer manipulation.
6. Develop a C function that takes a 2D array as a parameter and uses pointers to calculate the sum of each row, storing the results in a separate array.
7. Create a C program that uses pointers to functions to implement a simple calculator (addition, subtraction, multiplication, division) where the operation is chosen at runtime.