Practice projects:

Project in C++ to learn and understand concepts. Build using CMAKE for Visual Studio projects.

# constProject:

Contains main.cpp file that showcases the use of keyword “const” in different scenarios like:

Const variable

Const pointer to normal variable

Pointer to const variable

Const pointer to const variable

PracticeClass is used to showcase use of keyword “const” in scenarios involving functions and class member variables:

Const member variable initialization

Const function

Const function overloading

Const input to functions

Const return type

# stringProject

Project to showcase various operations done on strings in C++ like:

ReverseString

EncodeString

PalindromeCheck(both case-sensitive and case-insensitive)

# vectorProject

Project to showcase various operations done on vectors in C++ like:

Reversing a vector

Checking if a string of brackets are balanced

Insertion Sort

# Sorting and SortingTesting

Projects to showcase different sorting algorithms

Sorting.h -> Base class

BubbleSorting -> Sorts using bubble sort

InsertionSort -> Sorts using insertion sort

MergeSort-> base class for merge sort . –TO DO in-place merge sort—

OutPlaceMergeSort -> sorts using temp arrays for merge sort

OptimisedBubbleSort -> Sorts using bubble sort with a check for sorted list at each iteration

SortingTesting contains Main.cpp which shows how to invoke the sorting functions and also time-comparison between the different algorithms based on the array size.