Basics of C++, Arrays, Vectors and other STL

C++'s Standard Template Library (STL) is a programmer's toolbox. It provides common data structures like lists, stacks, and arrays, but with a twist: they're flexible and can work with different kinds of data.

The STL has three key components:

- **Containers:** Imagine boxes (vectors), notepads (lists), or phonebooks (maps) that hold your data.
- **Algorithms:** These are like handy functions for searching, sorting, and manipulating your data.
- **Iterators:** Think of them as arrows that point to and let you access elements within a container.

To use the STL effectively, you'll want to be familiar with templates in C++. Templates are like blueprints that allow you to create classes and functions that can work with any type of data.

Here are a couple of videos describing the same :

- Pairs and Vectors: C++ STL Tutorial for Beginners | Competitive Programmi...
- Nesting In Vectors: C++ STL For Beginners | Competitive Programming Cou...

  (the above videos are recommended for students using C++, incase of other language, there are similar data structures which are easily accessible online, still i would recommend watching to get an idea about the concept.)

Next , considering you are already familiar with binary search , sorting, we can move to some questions :
LeetCode - 560 - Subarray Sum equals K
Try out this question first, then move on to the solution

Longest Subarray with sum K | Brute - Better - Optimal | Generate Subarrays

LeetCode 1 - Two Sum Problem

2 Sum Problem | 2 types of the same problem for Interviews | Brute-Better-Optimal

Try out some questions below for a better understanding of these concepts.

1. Problem - 1980B - Codeforces
2. Problem - 1950B - Codeforces
3. Problem - 1794B - Codeforces
4. Longest Common Prefix - LeetCode
5. Reverse Bits - LeetCode

Extra

- ITERATORS: Pointer like structure in C++ STL | Competitive Programming Co…
- SET, UNORDERED SET & MULTISET : Beginners Tutorial for C+ STL | CP Co…
- Comparator Function in depth Tutorial using C++ Sort | CP Course | EP 34

1. Problem - 1765M - Codeforces