**Algorithm**

* Using std::find & std::find\_if with User Defined Classes
* Iterating over a range of User Defined objects and calling member function using std::for\_each
* std::for\_each Tutorial : Usage Details with Examples

**Iterators**

# Allocator

# Pair

# Tuple

# Sequence containers

# array

# vector

* What’s std::vector and why should I use std::vector?
* 5 Different ways to Initialize a vector
* How does std::vector works internally ?
* How to fill a vector with random numbers in C++
* Importance of Constructors while using User Defined Objects with std::vector
* How to use vector efficiently in C++?
* std::vector and Iterator Invalidation
* Remove all occurences of an element from vector in O(n) complexity
* Be careful with hidden cost of std::vector for user defined objects
* Add elements in vector using vector::push\_back

# deque

* What is std::deque and how deque works internally.
* deque vs vector : What to choose ?

# forward\_list

# list

* std::list Tutorial and Usage Details
* Vector vs List
* Different Ways To Initialize a List
* Erase elements from List using Iterators
* Removing elements from a List based on Criterion
* Remove Elements from a List while Iterating
* How to get element by index in List ?
* How to search an element in std::list ?

# Associative containers

## set

* Set usage details with default sorting criteria
* Using std::set with user defined classes
* std::set and external Sorting criteria | Comparator
* How to access an element by index in Set
* Different ways to insert elements in Set
* How to Iterate over a Set in C++
* Removing an element from Set using different techniques.
* Erase elements while Iterating over Set & Generic erase\_if()

# map

* std::map Tutorial Part 1: Usage Detail with examples
* std::map Tutorial -Part 2: std::map and External Sorting Criteria / Comparator
* std::map Tutorial – Part 3: Using User defined class objects as keys in std::map
* Set vs Map : How to choose a right associative container ?
* How to Insert elements in a map
* How to Iterate over a map in C++
* Map Insert Example
* Iterate a map in reverse order
* Check if a key exists in a Map
* Search by value in a Map
* C++ Map : Erase by Key | Iterators
* C++ Map : Operator []
* C++ Map : Erase by Value or callback
* Using STL to verify brackets or parentheses combination in an expression

# multiset

# multimap

# Unordered associative containers

# unordered\_set

* Unordered\_set Basic Example
* Initializing an unordered\_set
* Inserting elements in an unordered\_set
* Searching an element in unordered\_set
* Unordered\_set – Custom Hasher & Comparator
* Unordered\_set & User defined classes

# unordered\_map

* Basic Usage Detail and Example
* Initializing an unordered\_map
* Searching in unordered\_map
* Insert elements in unordered\_map
* Erasing an element
* Erase elements while iterating
* std::map vs std::unordered\_map

# unordered\_multiset

# unordered\_multimap

# Container adaptors

# stack

# queue

# priority\_queue

# Misc.

* C++ std::list Tutorial, Example and Usage Details
* How to initialize an unordered\_set in C++11
* How to remove elements from a List while Iterating
* map vs unordered\_map | When to choose one over another ?
* deque vs vector : What to choose ?
* Unordered\_map Usage Tutorial and Example
* Different Ways to initialize an unordered\_map
* Remove all occurences of an element from vector in…
* How to Insert elements in an unordered\_set in C++11
* c++11 unordered\_map : erase elements while iterating…
* How to use vector efficiently in C++?
* Difference between Vector and List in C++
* Iterating over a range of User Defined objects and…
* C++ Set example and Tutorial – Part 1
* How to Erase / Remove an element from an unordered\_map
* c++ std::vector and Iterator Invalidation example
* 5 Different ways to Initialize a vector in c++
* Importance of Constructors while using User Defined…
* How to use Unordered\_set with User defined classes…
* Erase elements from a Set while Iterating in C++…
* STL Algorithm std::unique Tutorial
* What is std::deque and how deque works internally.
* Different ways to Initialize a list in C++
* C++ std::vector example and why should I use std::vector?
* How to iterate over an unordered\_map in C++11

# Important links:

<http://thispointer.com/stl-tutorials-and-interview-questions/>

<https://www.geeksforgeeks.org/tag/stl/>

<https://www.wisdomjobs.com/e-university/standard-template-library-stl-interview-questions.html>

<http://quantlabs.net/blog/2010/05/c-interview-questions-on-stl-containers-like-vector-and-list/>

<https://stackoverflow.com/questions/1691759/what-questions-should-an-expert-in-stl-be-expected-to-answer-in-an-interview>

<http://www.sanfoundry.com/cpp-interview-questions-experienced-sequences-containers/>

<https://www.globalguideline.com/interview_questions/Questions.php?sc=STL>

<https://www.quora.com/Anyone-can-list-good-common-and-advanced-questions-for-testing-C++-STL-skill-during-interview>

<http://cs.smu.ca/~porter/csc/ref/stl/faq.html>