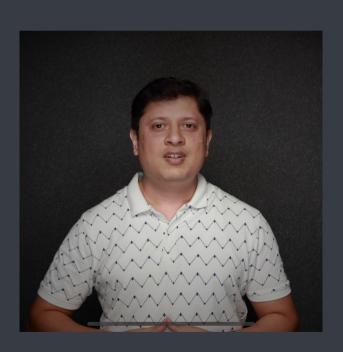
#### C, C++, DSA in depth

#### Algorithms



Saurabh Shukla (MySirG)

# Agenda

- 1) STL algorithms 2) major methods
- lambda

## Algorithms

C++ standard library provides template functions that persorm algorithms.

The C++ standard library algorithms are generic because they can operate on a variety of data structures.

The data structures that they can operate on, include not only the C++ Standard Library container classes such as vector and list, but also program defined data structures and arrays of elements that satisfy the requirements of a particular algorithm.

Ctt Standard Albrary algorithms achieve this level of generality by accessing and traversing the elements of a container indirectly through iterators.

The header for STL algorithm library is algorithm

### Some of the functions

adjacent\_find() all\_of() any\_of() binary\_search() lower bound() upper\_bound() max\_element() min\_element() for each()

generate () count() find () equal() 机() merge () remove () reverse() replace()

### lambda in C++

[capture clause] (parameters) -> return-type

{
definition
}

Introduced in C++11

[] (int a, int b) -> int { return (a+b)}