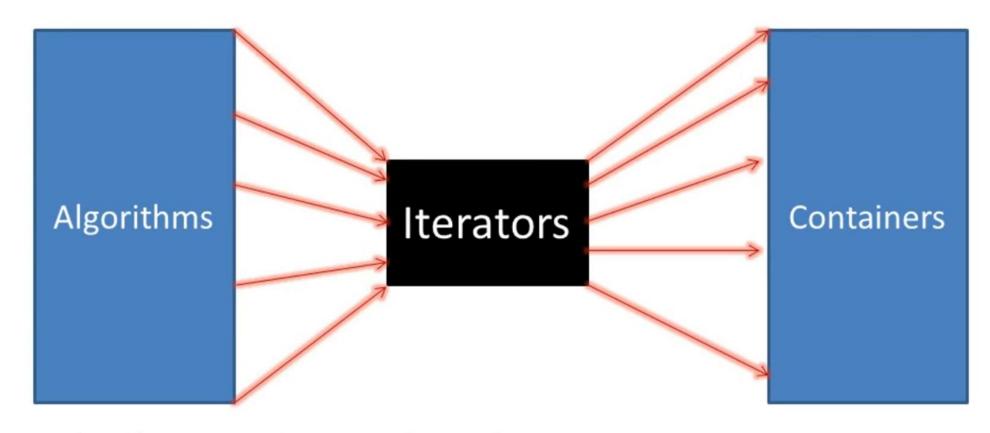
STL and Tree

Standard Template Library (STL)

Algorithms Containers

N Algorithms + M Containers = N * M implementations.

Iterators



N Algorithms + M Containers = N * M implementations.

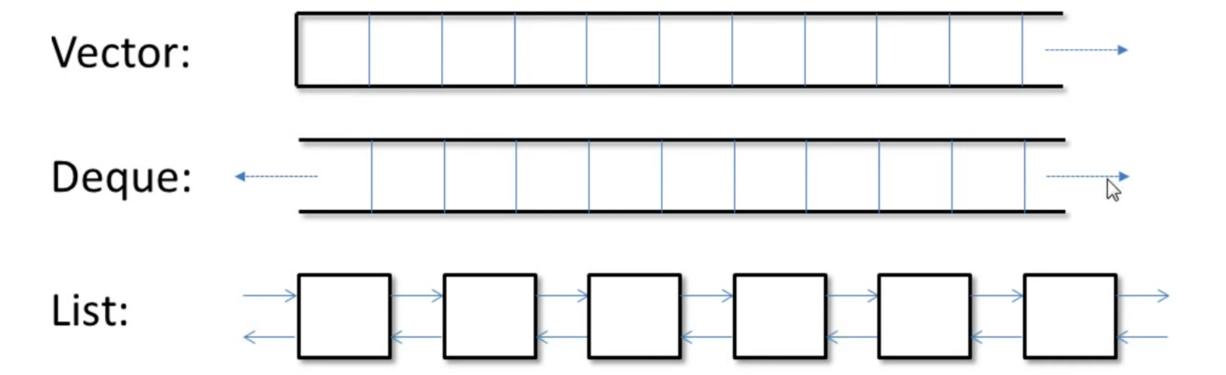
N + M implementations.

Easily extendable

Containers

- Sequence containers (array and linked list):
 - vector, deque, list, forward list, array
- Associative Containers (binary tree)
 - set, multiset,
 - map, multimap
- Unordered Containers (hash table)
 - Unordered set/multiset;
 - Unordered map/multimap

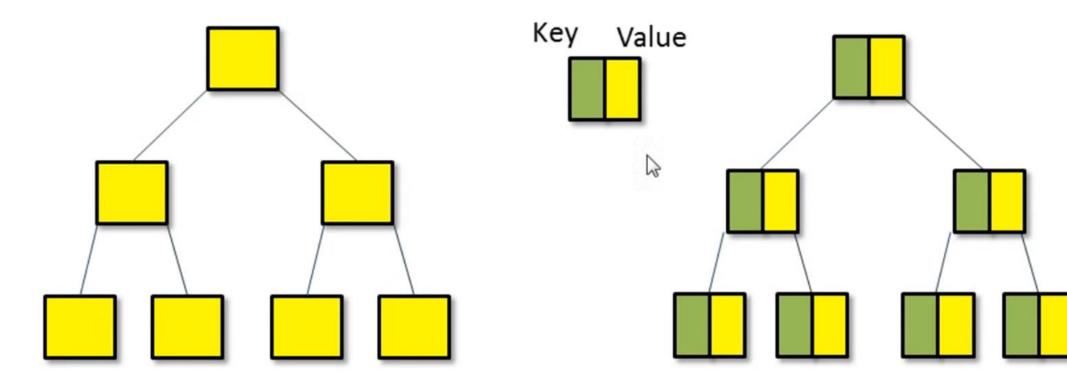
Sequence Containers



Associative Container

Set or Multiset:

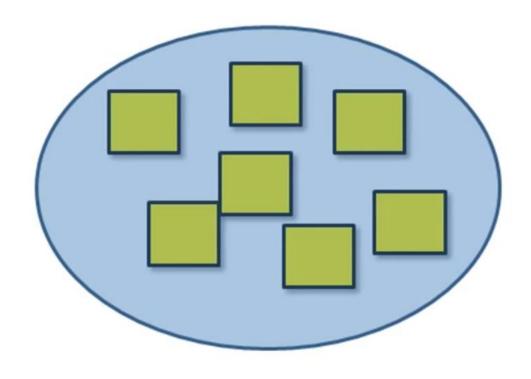
Map or Multimap:

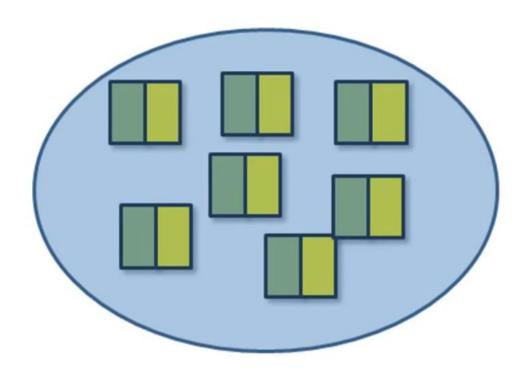


Unordered Associative Container (C++ 11)

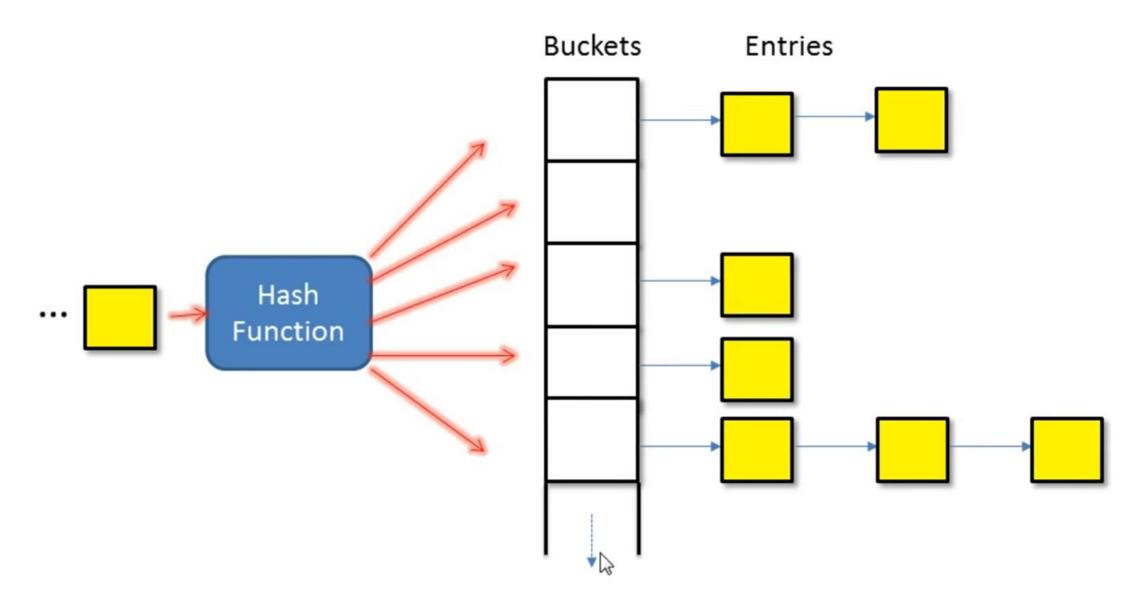
Unordered Set or Multiset:

Unordered Map or Multimap:





Implementation of Unordered Containers



Reference

- https://github.com/gibsjose/cpp-cheatsheet/blob/master/Data%20Structures%20and%20Algorithms.md
- https://github.com/wasit7/toi/tree/master/python/tutorials