

C_plus_plus

1

STL

1. Algorithms

2. Containers

3. Iterators

generic(Template work for any type of data)

# 1.1 search()	# 2.1 vector()
# 1.2 sort()	# 2.2 list(<-----
# 1.3 binary_search()	# 2.3 forward_list(<----- SAME FUNCTION
# 1.4 reverse()	# 2.4 deque(<-----
# 1.5 concat()	# 2.5 priority_queue()
# 1.6 copy()	# 2.6 stack()
# 1.7 union()	# 2.7 set()
# 1.8 intersection()	# 2.8 multiset()
# 1.9 merge()	# 2.9 map<KEY,VALUE>
# 1.10 heap()	# 2.10 multimap<KEY,VALUE>

2

2.1) vector()-> Like Array (properties:- Dynamic increment and decrement you can not insert,delete from front)

push_back() , pop_back(), insert(), remove() , size() , empty() , begin() , end()

2.2) list()-> Like Double Linked List(properties:- Insertion and Deletion from both the size 2 extra node(prev,next))

push_front(), pop_front(), front(), back()

push_back() , pop_back(), insert(), remove() , size() , empty() , begin() , end()

2.3) forward_list()-> Like Single Linked List (properties:- If you want to access in forward direction)

push_front(), pop_front(), front(), back()

push_back() , pop_back(), insert(), remove() , size() , empty() , begin() , end()

2.4) deque()-> Like Vector(Array) (properties:- but from both the end you can insert and delete)

push_front(), pop_front(), front(), back()

push_back() , pop_back(), insert(), remove() , size() , empty() , begin() , end()

2.5) priority_queue()-> Like Heap Data structure(properties:- MAX HEAP Always largest elem will be delete or min just opposite)

push(), pop(), empty(), size()

2.6) stack()-> Like LIFO(properties:- Last in first out manner)

push(), pop(), empty(), size()

2.7) set()-> Like HashSet(properties:- Not contain duplicate data,unique,unordered)

push(), pop(), empty(), size()

2.8) multiset()-> Like HashSet(properties:- contain duplicate data,No unique,unordered)

push(), pop(), empty(), size()

2.9) map< KEY,VALUE>-> Like HashMap(properties:- contain unique key)

push(), pop(), empty(), size()

2.10) multimap< KEY,VALUE>-> Like HashMap(properties:- Not contain unique key but
<key,value> pair are unique)

push(), pop(), empty(), size()