STL (Standard Template Library)

* Array

* Vector (Dynamic Array)

* Vist (Doubly Link List)

* forward_list (Single Link list)

* Set

* multiset

* multiset

* Map

* Multimap

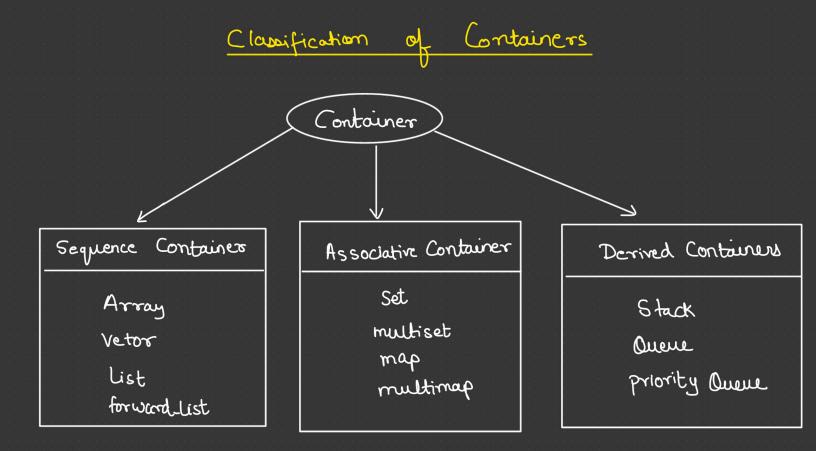
* Stack

* Queue

* Priority Queue.

Components of STL:

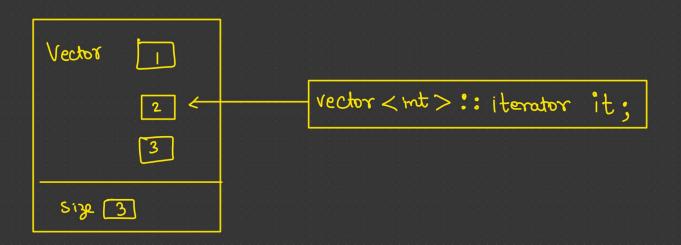
- # Containers
- * I terators
- & Algorithms.



Each container class contains a set of functions that can be used to manipulate the contents

TetorostI

- * Iterators are pointer-like entities used to access the individual elements in a container.
 - Iterators are moved sequentially from one element to another element. This process is known as iterating through a container.

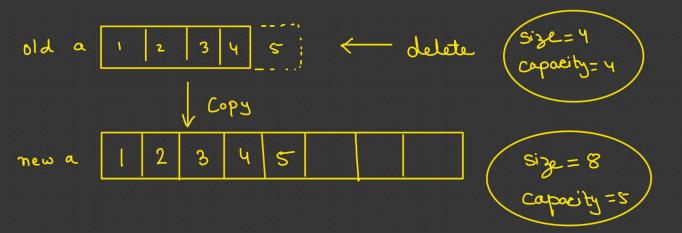


Array Class template < class T > class array at() get() reperator [] front() back() size() max_size() swap()

Vector Class

- 1 #include < vector >
- @ vedor <int> v;
- 3) vector (int); iterator it;
- 4 for (it = v. begin (); it != v.end(); it++)
 {

 cout << *it << ";
 }



List

4 It is non-contiguous memory allocation.

It is same as doubly linked list.

A It is slow in traversal as compared to rector.



Insertion & Delation is fast as compared to rector.

- ① #include < list >
- 2) list < mt > 11;
- 3 11. push_back (5);
- 4 List civit >:: iterator x;
- (5) for (x = ll.begin(); x l= ll.end(); x++)

 {

 cout<< "X << endl;