Vector is a container which is dynamic in nature, you can always increase the size.

Void explain Vector () {

Vector cint > V; ((declaration - empty container d))

V. push - back (1); (( => d 1 ))

V. emplace \_back (2); // Similary to push back it dynamically

emplace\_back is foster than place back.

increase it size.

£1,23

Vector < pair < int, int >> vec; (( vector of pair

V. pmh\_back ((1,2)); (( (1,2))

V. emplace\_back ((,2); (( (1,2))

Container of size 5 of elevat coo

Vector < int > V(5 (100); (( (100, 100, 100, 100) (100))

Size

Vector < int > y (5); (( (100, 100, 100, 100) (100))

Make

Vector <int z VI (5,20); (1 {20,20,20,20,20})

Il to copy into mother vector

How to access element in a vector?

2nd way -> iterator

points directly on the memory

(out << \* (it) << " ; //10 it = it +2; Ushift it by

(out << \* (it) << " "; (15

> printing the memory address (not

the element.

in order to access the element

in (++ we use to.

\* (v. begin (1) = 20

it ++ ((if move to next menony

h (1. begin()) = 10

Vector <int > :: iterator it = v. en()

flo, 20, 30, 40 g

Vector <int > :: iterator it = v. ent () {10,20,30,40} 1t--{10,20,30,403 pers REND: (Revene FND) {10, 20, 30, 40} Vector <int > :: iterator it = v. renal) RBEGIN: (Revese begin) {10, 20, 30, 40} Vector <int > :: iterator it = V. rbegin() Sin revese way it ~ « · · Move. ر ١٥, ٥٥, ٥٥ ك Cout << 4. back() << "; //30 Il print using for loop 1 60, 20, 30] 1 m

for ( vector < int > : iterator if = 11. begin () != v.ena(); it++) {

Cout << \* (it) << ";
}

output > 10 20 20

## Deletion in Vector:

not included

## Insertation in vector:

Vector < int > V (2, 600); // {100, 600}

```
U. insert (U. begin (), 300); (( { 300, 100, 100}
Vincert (V. begin () + (, 2, 10) // {300, 10,100}
Vector <int> copy (2,50); //50,504
V-insart (V-begla (), copy-begin (), copy-end()); 11 { 50,50,300,10,
                                                f 001,000,000
  110, 20 g
  V. size (); // 2 (How many element there in vector)
  110,203
  V. pop_back(); (/ for }
  VI -> fco, 203 02 -> (30, 404
  VI. SLOAD (42); XI -> {30,403 42 -> fc0,203
   V. clear (); ((evase the entire vector
   cout << U empty (); // fig -> False fg -> time
```