**Various Functions in Vectors are**

**Iterators:**

* **begin()** –  It returns an iterator pointing to the first element in the vector.
* **end()**– It returns an iterator pointing to the last element in the
* **rbegin()**– It returns a reverse iterator pointing to the last element in the vector.
* rend() – It returns a reverse iterator pointing to the element preceding the first element in the vector. Basically considered as a reverse end.
* **cbegin()**– It returns a constant iterator pointing to the first element in the vector.
* **cend()**– It returns a constant iterator pointing to the element that follows the last element in the vector.
* **crbegin()**– It returns a constant reverse iterator pointing to the last element in the vector.
* **crend()**– It returns a constant reverse iterator pointing to the element preceding the first element in the vector.

**Capacity:**

* **size()**– It returns the number of elements currently present in the vector.
* **max\_size()**– It returns the maximum number of elements that a vector can hold.
* **capacity()**– It returns the storage capacity currently allocated to the vector.
* **resize(n)** – It resizes the container to store ‘n’ elements.
* **empty()**– It returns whether the container is empty or not.

**Modifiers:**

* **assign() –**It assigns a new value to the existing elements of the vector.
* push\_back() – It pushes the element from back in the vector.
* pop\_back() – It removes elements from the back of the vector.
* insert() – It inserts an element before a specified element in the vector.
* erase() – It is used to remove elements from a specified element or a range in the vector.
* swap() – It is used to swap the contents of two vectors of the same datatype. The sizes of vectors may differ.
* **clear() –**It is used to remove all the elements from the vector.

**Element access:**

* **reference\_operator[g]:**It returns a reference to the ‘g’ element in the vetor.
* **at(g):**It returns a reference to the element at position ‘g’ in the vector.
* **front():**It returns a reference to the first element in the vector.
* **back():**It returns a reference to the last element in the vector.
* **data():**It returns a direct pointer to the memory array which is used internally by the vector to store its owned elements.

https://www.mygreatlearning.com/blog/vectors-in-c/#:~:text=Vectors%20in%20C%2B%2B%20are%20sequence,regular%20pointers%20to%20its%20elements.