Vector

Function	Explanation	Syntax	Complexity
1) push_back	insert an element at the end of the vector	v.push_back(5)	O(1)
2) pop_back	remove the last element of the vector	v.pop_back()	O(1)
3) front	get the first element of the vector	v.front()	O(1)
4) back	get the last element of the vector	v.back()	O(1)
5) empty	check if the vector is empty	v.empty()	O(1)
6) clear	remove all the elements of the vector	v.clear()	O(n)
7) size	get the number of elements of the vector	v.size()	O(1)
8) assign	assign new values to the vector	v.assign(10,2)	O(n)
9) resize	change the size of the vector	v.resize(5) or v.resize(5,2)	O(n)
10) begin	iterator to the first element	v.begin()	O(1)
11) end	iterator to the element after the last	v.end()	O(1)
12) –end	iterator to the last element	–v.end()	O(1)

13) reverse	reverse the elements of the vector	reverse(v.begin(),v.end())	O(n)
14) sort	sort the elements of the the vector in ascending order	sort(v.begin(),v.end())	O(n log n)
15) min_element	iterator to the minimum element	min_element(v.begin(),v.end())	O(n)
16) max_element	iterator to the maximum element	max_element(v.begin(),v.end())	O(n)