Set & Multiset

Function	Explanation	Syntax	Complexity
1) begin	iterator to the first element	s.begin()	O(1)
2) end	iterator to the element after the last	s.end()	O(1)
3) –end	iterator to the last element	–s.end()	O(1)
4) insert	insert an element into the set	s.insert(5)	O(log n)
5) erase	remove an element from the set	s.erase(5)	O(log n)
6) find	find an element from the set	s.find(5)	O(log n)
7) size	get the number of elements of the set	s.size()	O(1)
8) empty	check if the set is empty	s.empty()	O(1)
9) clear	remove all the elements of the set	s.clear()	O(n)
10) lower_bound	get an iterator to the first element which is greater or equal to x	s.lower_bound (x)	O(log n)
11) upper_bound	get an iterator to the first element which is strictly greater than x	s.upper_bound (x)	O(log n)