~> S.C => O(n)

SET

↳ set have only unique elements in it

★ Set is not a index Based Container

★ You can get output of set only either in ascending or Descend -ing order.

Syntax

(I) `Set<int> s;`

Insert => {3, 9, 8, 5, 11}

Output => 3, 5, 8, 9, 11.

(II) `Set<int, greater<int>> val;`

Insert => {3, 9, 8, 5, 11}

Output => 11, 9, 8, 5, 3

★ SET IS NOT A INDEX BASED CONTAINER

`for(int i=0; i<s.size(); i++)`

↳ WRONG ✗

★ set.empty()

↳ Tells whether set is empty or not.

T.C

↳ Traversal ⇒ Set ⇒ O(n)

↳ Insertion ⇒ O(log n)

↳ Deletion ⇒ O(log n)

↳ Insertion of array ⇒ O(n log n)
(Converting array to set)

INSERTION IN SET

(I) s.insert(5);

(II) Want to insert vector into set

↳ s.insert(vec.begin(), vec.end());

ITERATING IN SET

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(I) for(auto it=s.begin();
it!=s.end();++it)
{ cout<<*it<<" ";
}

(II) for(const auto& ele: s)
{ cout<<ele<<endl;
}