Class 09

Tuesday, June 15, 2021 10:17 PM

```
int t=5;
while( 0 )
{

  // tasks

}
```

true

```
vector<int> vc{1,2,3};
int i=0;
for(int item : vc)
{
  cout << item << " ";
}
```

foreach (----)

item → item → item → ×

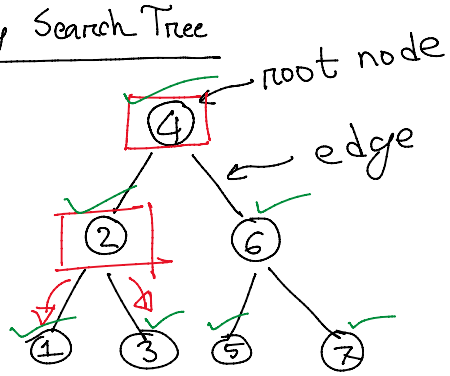
| 1 | 2 | 3 |

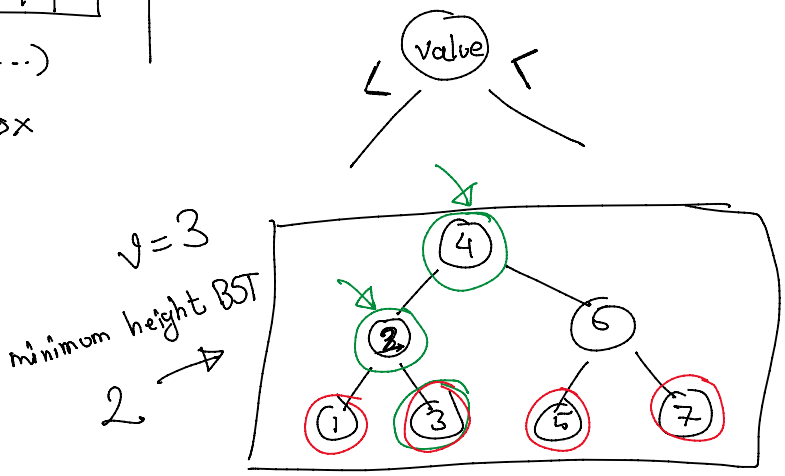
C++ STL for CP public

Learning Data Structure

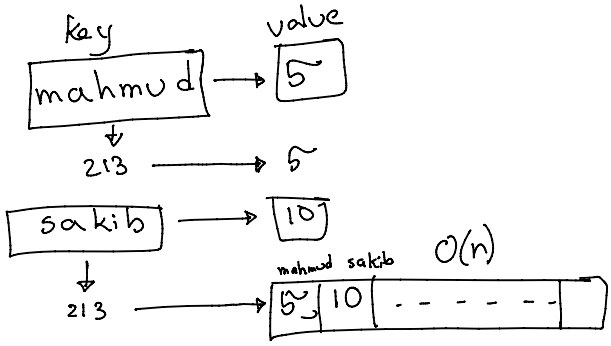
	C++	Java
unordered_map →	O(n)	O(logN)

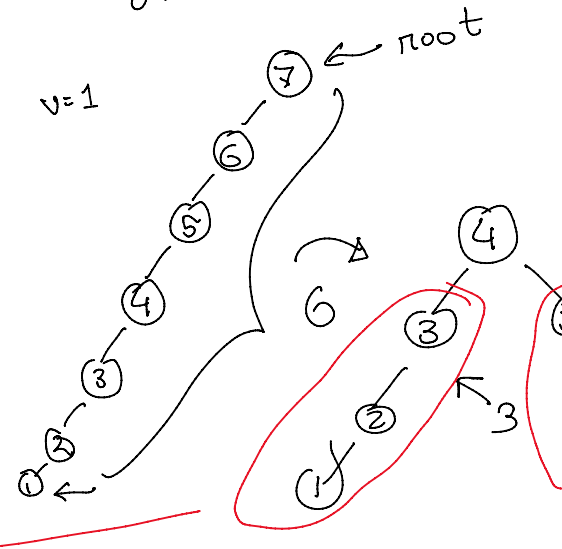
Binary Search Tree

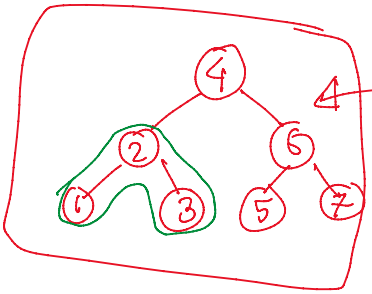


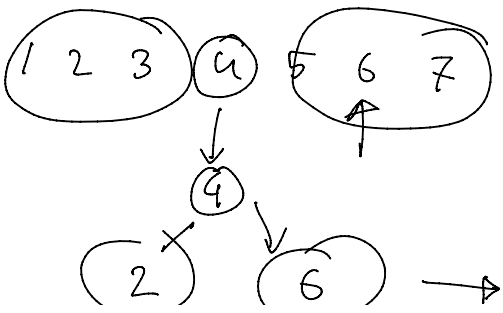


$\log_2(7) = 3$

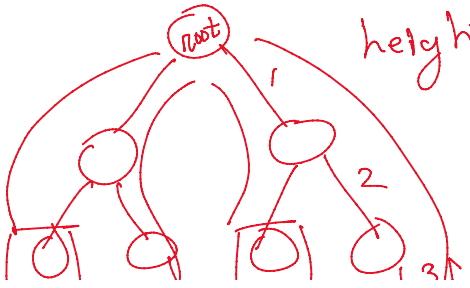




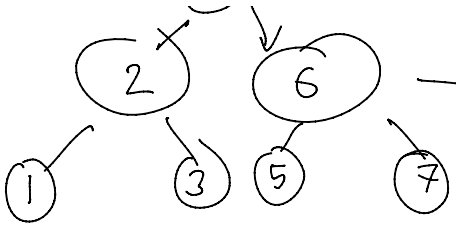




→ Self balancing BST



5
6
7



→ Self balancing BST

i) AVL Tree

ii) RBT

iii) Treap (Tree + Heap)

iv) Splay Tree