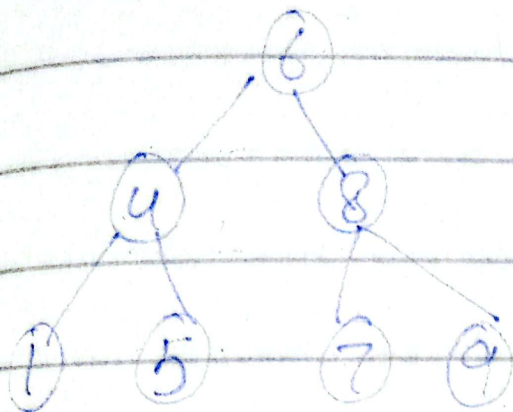


Inorder Predecessor & Successor



key = 7
(6, 8)

Case:

① $key < curr \rightarrow data$
 $succ = curr$
 $curr = curr \rightarrow left$

② $key > curr \rightarrow data$
 $prev = curr$
 $curr = curr \rightarrow right$

③ $key == curr \rightarrow data$

↳ In predecessor
 right most in left subtree

↳ In successor

left most in right subtree

```

RightMost(root) {
  while (root != NULL) {
    ans = root
    root = root -> right
  }
  leftMost(root)
  while (root != NULL) {
    ans = root
    root = root -> left
  }
  return ans;
}
  
```

TC = $O(\text{height})$
 SC = $O(1)$