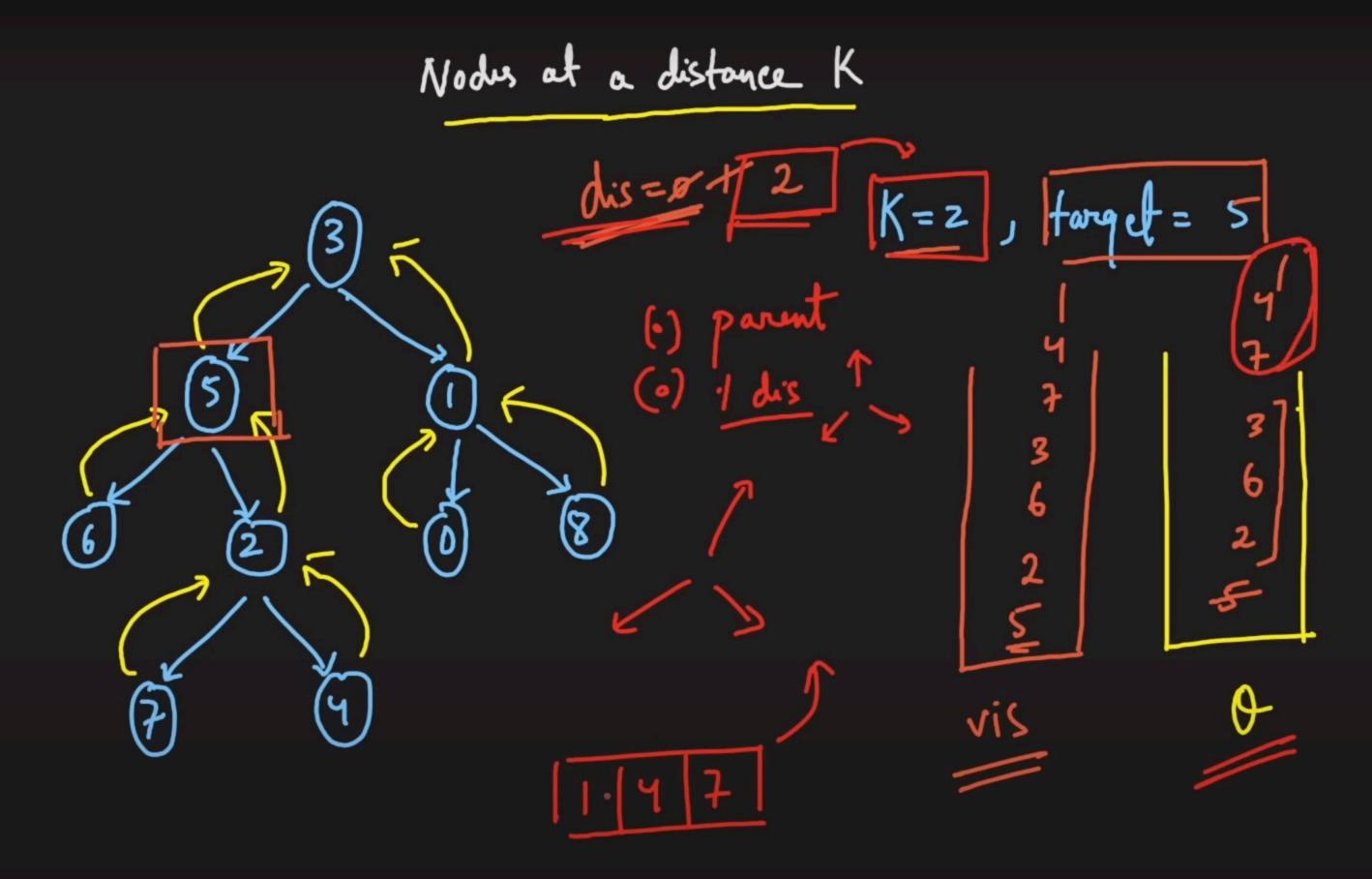
```
10 v class Solution {
        wold markParents(TreeNode* root, unordered_map<TreeNode*, TreeNode*> &parent_track, TreeNode* target) {
             queue<TreeNode*> queue;
        queue.push(root);
13
14 v
             while(!queue.empty()) {
15
               FeeNode* current = queue.front();
16
                 queue.pop();
                if(current->left) {
                    parent_track[current->left] = current;
19
                    queue.push(current->left);
20
                 if(current->right) {
                    parent_track[current->right] = current;
22
23
                     queue.push(current->right);
25
26
27
     public
28 4
       vector<int> distanceK(TreeNode* root, TreeNode* target, int k) {
29
         unordered_map<TreeNode*, TreeNode*> parent_track; // node -> parent
30
             markParents(root, parent_track, target);
31
32
             unordered_map<TreeNode*, bool> visited;
33
          queue<TreeNode*> queue;
34
           queue.push(target);
35
        visited[target] = true;
36
            int curr_level = 0;
        ____while(!queue.empty()) { /*Second BFS to go upto K level from target node and using our hashtable info*/
37 ▼
38
             int size = queue.size()
               lif(curr_level++ == k) break:
39
40 v
              for(int i=0; i<size; i++) {</pre>
41
                     TreeNode* current = queue.front(); queue.pop();
                    if(current->left && !visited[current->left]) {
42 v
                       vqueue.push(current->left);
43
                        isited[current->left] = true;
                  if(current->right && !visited[current->right]) {
                        queue.push(current->right);
                       isited[current->right] = true;
                     if(parent_track[current] && !visited[parent_track[current]]) {
                      51
                      isited[parent_track[current]] = true;
             vector int result:
             while (!queue.empty())) {
                 Treewoue current = queue.front(); queue.pop();
                 result.push_back(current->val);
             return result;
```

```
Java
            TreeNode(int x) { val = x; }
10 v class Solution {
         private void MarkParents TreeNode root, Map<TreeNode, TreeNode> parent_track, TreeNode target) {
11 +
12
             Queue<TreeNode> queue = new LinkedList<TreeNode>();
13
              queue.offer(root);
14 +
              while(!queue.isEmpty()) {
15
                 TreeNode current = queue.poll();
16 v
                 if(current.left != null) {
                     parent_track.put(current.left, current);
17
18
                     queue.offer(current.left);
19
20 +
                 if(current.right != null) {
                     parent_track.put(current.right, current);
                     queue.offer(current.right);
22
23
24
25
26 *
         public List<Integer> distanceK(TreeNode root, TreeNode target, int k) {
              Map<TreeNode, TreeNode parent_track = hew HashMap<>();
27
             markParents(root, parent_track, root);
28
29
             Map<TreeNode, Boolean> visited = new HashMap<>();
30
             Quate<TreeNode> queue = new LinkedList<TreeNode>();
31
           queue.offer(target);
32
              visited.put(target, true);
33
             int curr_level = 0;
34 *
             while(!queue.isEmpty()) { /*Second BFS to go upto K level from target node and using our hashtable
     info*/
                 int size = queue.size();
35
                if(curr_level == k) break;
36
37
               curr_level++;
                 for(int i=0; i<size; i++) {
38 ₹
39
                     TreeNode current = queue.poll();
40 v
                     if(current.left != null && visited.get(current.left) == null) {
41
                         queue.offer(current.left);
42
                         visited.put(current.left, true);
43
                     if(current.right != null && visited.get(current.right) == null ) {
                         queue.offer(current.right);
                          visited.put(current.right, true);
                     if(parent_track.get(current) != null && visited.get(parent_track.get(current)) == null) {
                          queue.offer(parent_track.get(current));
                         visited.put(parent_track.get(current), true);
53
             List<Integer> result = new ArrayList<>();
55 ₹
             while(!queue.isEmpty()) {
                 TreeNode current = queue.poll();
                 result.add(current.val);
58
             return result;
60
```



Your previous code was restored from your local storage. Reset to default









Nodus at a distance K

