

```
i C++
                  Autocomplete
                                                                \odot
        class Solution {
  2
        public:
  3
            int diameter(vector<int> adj[],int par,int &maxLen,int
       parent)
   4 1
            {
  5
                int maxi = 0, secondMaxi = 0;
  6
                for(int children : adj[par])
  7 •
  8
                    if(parent == children)
  9
                         continue;
 10
                    int len = diameter(adj,children,maxLen,par);
 11
                    if(len>maxi)
 12 🔻
 13
                         secondMaxi = maxi;
 14
                        maxi = len;
 15
                    else if(len>secondMaxi)
 16
 17 🔻
                    {
 18
                         secondMaxi = len;
 19
 20
 21
                maxLen = max(maxLen,maxi+secondMaxi);
 22
                return maxi+1;
 23
            }
 24
            int treeDiameter(vector<vector<int>>& edges) {
 25 •
 26
                int n = edges.size();
 27
 28
                vector<int> adj[n+1];
 29
                for(int i=0;i<edges.size();i++)</pre>
 30
 31 •
                {
                    adj[edges[i][0]].push_back(edges[i][1]);
 32
 33
                    adj[edges[i][1]].push_back(edges[i][0]);
 34
 35
 36
                int maxLen = 0;
                diameter(adj,0,maxLen,-1);
 37
 38
                return maxLen;
 39
 40
       };
 41
 42 ▼
 43
       m-2 this is bfs solution good technique that one should
        know nice solution
 44
 45
        class Solution {
 46
 47
            public int treeDiameter(int[][] edges) {
 48
 49
                List<Set<Integer>> graph = new
        ArrayList<Set<Integer>>();
                for (int i = 0; i < edges.length + 1; ++i) {
 50
 51
                    graph.add(new HashSet<Integer>());
 52
                                                                  NEW
Testcase
         Run Code Result Debugger 🛅
 Accepted
              Runtime: 0 ms
               [[0,1],[1,2],[2,3],[1,4],[4,5]]
 Your input
               4
                                                                   Diff
 Output
 Expected
            Use Example
 Console...
                                           ▶ Run Code ^
```

Testcases