AlgoExpert Quad Layout Swift 12px Sublime Monokai 00:00:00

Solution 1

Solution 2

Run Code

Prompt Scratchpad Our Solution(s) Video Explanation

```
Solution 1
 1\, // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
   class Program {
       class Node {
           var name: String
           var children: [Node]
           init(name: String) {
 8
 9
               self.name = name
               children = []
10
11
12
           func addChild(name: String) -> Node {
13
14
               let childNode = Node(name: name)
15
               children.append(childNode)
16
17
               return self
18
19
20
           // O(v + e) time | O(v) space
21
           func breadthFirstSearch(array: inout [String]) -> [String] {
22
               var queue = [self]
23
24
               while queue.count > 0 {
25
                   let currentNode = queue.removeFirst()
                   array.append(currentNode.name)
26
27
                   for child in currentNode.children {
28
                       {\tt queue.append(child)}
29
30
31
```

32 33

return array

```
Your Solutions Run Code
```

```
1 class Program {
       class Node {
           var name: String
           var children: [Node]
           init(name: String) {
               self.name = name
               children = []
10
11
           func addChild(name: String) -> Node {
               let childNode = Node(name: name)
12
13
               children.append(childNode)
14
15
               return self
16
17
18
           func breadthFirstSearch(array: inout [String]) -> [String] {
19
               // Write your code here.
20
               return []
21
22
23 }
24
```

Solution 3

Custom OutputRaw OutputSubmit Code

Run or submit code when you're ready.