AlgoExpert

class Program {

class Node {

let name: String
var children: [Node]

init(name: String) {

return self

array.append(name)

return array

for child in children {

self.name = name
children = []

Solution 1

13

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20 21 22

24 25

26 27 28

**Quad Layout** 

Swift

Sublime

Monokai

00:00:

Run Code

Our Solution(s) Run

 $_{\rm 1}$  // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.

func addChild(name: String) -> Node {

children.append(childNode)

let childNode = Node(name: name)

// O(v + e) time | O(v) space
func depthFirstSearch(array: inout [String]) -> [String] {

child.depthFirstSearch(array: &array)

```
Run Code
```

Your Solutions

12px

Solution 1 Solution 2 Solution 3

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

Custom Output Raw Output Submit Code

Run or submit code when you're ready.