Our Solution(s) Run Code

```
Solution 1
```

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
 3
   class Program {
 4
        class Node {
 5
           var name: String
6
           var children: [Node]
 7
            init(name: String) {
9
                self.name = name
10
                children = []
11
            }
12
13
            func addChild(name: String) -> Node {
                let childNode = Node(name: name)
14
15
                children.append(childNode)
16
17
                return self
18
19
20
            // O(v + e) time | O(v) space
            func breadthFirstSearch(array: inout [String]) -> [Strin
21
                var queue = [self]
23
                while queue.count > 0 {
24
25
                    let currentNode = queue.removeFirst()
                    array.append(currentNode.name)
26
27
28
                    for child in currentNode.children {
29
                        queue.append(child)
30
31
32
```

```
Your Solutions Run Code
```

```
Solution 1
             Solution 2
                          Solution 3
 1
   class Program {
        class Node {
            var name: String
 4
            var children: [Node]
 5
 6
            init(name: String) {
                self.name = name
                children = []
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            func addChild(name: String) -> Node {
12
                let childNode = Node(name: name)
13
                children.append(childNode)
14
15
                return self
16
17
            func breadthFirstSearch(array: inout [String]) -> [String]
18
19
                // Write your code here.
20
                return []
22
23
24
```

33

return array

