

Our Solution(s)

Run Code

Solution 1

```
1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 package main
4
5 type Node struct {
6     Name string
7     Children []*Node
8 }
9
10 // O(v + e) time | O(v) space
11 func (n *Node) BreadthFirstSearch(array []string) []string {
12     queue := []*Node{n}
13     for len(queue) > 0 {
14         current := queue[0]
15         queue = queue[1:]
16         array = append(array, current.Name)
17         for _, child := range current.Children {
18             queue = append(queue, child)
19         }
20     }
21     return array
22 }
23
```

Your Solutions

Run Code

Solution 1

Solution 2

Solution 3

```
1 package main
2
3 // Do not edit the class below except
4 // for the breadthFirstSearch method.
5 // Feel free to add new properties
6 // and methods to the class.
7 type Node struct {
8     Name string
9     Children []*Node
10 }
11
12 func (n *Node) BreadthFirstSearch(array []string) []string {
13     // Write your code here.
14     return nil
15 }
16
```

Our Tests

Custom Output

Submit Code

```

18 print ( )
19
20 print ("Welcome to the Python3 program")
21
22
23 def greet(name): print ("Hello " + name + "!")
24 greet ("Alice")
25 greet ("Bob")
26 greet ("Charlie")
27
28
29
30 def do_math(a, b): print ("Sum: " + str(a + b))
31 do_math ( 10, 20 )
32 do_math ( 5, 15 )
33 do_math ( 100, 200 )
34
35
36 print ( )
37
38

```

Run or submit code when you're ready.