AlgoExpert

Quad Layout

Python

on

12px

Solution 1 Solution 2

Sublime

Solution 3

Monokai

00:00:

Our Solution(s)

Run Code

Your Solutions

Run Code

```
Solution 1
```

17

18

19

20

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   class Node:
        def __init__(self, name):
    self.name = name
            self.children = []
        def addChild(self, name):
            self.children.append(Node(name))
10
12
        # O(v + e) time | O(v) space
        def breadthFirstSearch(self, array):
13
14
            queue = [self]
15
            while len(queue) > 0:
16
               current = queue.pop(0)
```

array.append(current.name)

queue.append(child)

return array

for child in current.children:

```
{\tt 1}{\tt \phantom{0}} # Do not edit the class below except
 2 # for the breadthFirstSearch method.
 3 # Feel free to add new properties
 4 # and methods to the class.
    class Node:
        def __init__(self, name):
            self.children = []
            self.name = name
10
        def addChild(self, name):
            self.children.append(Node(name))
12
            return self
13
        def breadthFirstSearch(self, array):
14
            # Write your code here.
16
            pass
```

Run or submit code when you're ready.