AlgoExpert

**Quad Layout** 

Python

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Sublime

Monokai

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Our Solution(s)

Run Code

Your Solutions

Run Code

```
Solution 1
```

17

```
1  # Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
2
3  class Node:
4    def __init__(self, name):
5        self.children = []
6        self.name = name
7
8    def addChild(self, name):
9        self.children.append(Node(name))
10        return self
11
12    # O(v + e) time | O(v) space
13    def depthFirstSearch(self, array):
14    array.append(self.name)
15    for child in self.children:
16        child.depthFirstSearch(array)
```

return array

```
Solution 1 Solution 2 Solution 3
```

```
1 \, # Do not edit the class below except
2 # for the depthFirstSearch method.
 3 # Feel free to add new properties
   # 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 depthFirstSearch(self, array):
14
           # Write your code here.
16
           pass
```

Run or submit code when you're ready.

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