AlgoExpert

**Quad Layout** 

12px

Sublime

Solution 1 Solution 2 Solution 3

Monokai

00:00:

Solution 1

Prompt

32 }

Scratchpad Our Solution(s)

Video Explanation Run Code

**Your Solutions** 

```
Run Code
```

```
1\, // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
    using System.Collections.Generic;
    public class Program {
      public class Node {
        public string name;
        public List<Node> children = new List<Node>();
        public Node(string name) {
         this.name = name;
13
        // O(v + e) time | O(v) space
14
        public List<string> BreadthFirstSearch(List<string> array) {
16
          Queue<Node> queue = new Queue<Node>();
          queue.Enqueue(this);
17
18
          while (queue.Count > 0) {
           Node current = queue.Dequeue();
19
            array.Add(current.name);
20
            current.children.ForEach(o => queue.Enqueue(o));
          return array;
24
25
26
        public Node AddChild(string name) {
27
          Node child = new Node(name);
          children.Add(child);
28
          return this;
30
31
```

```
1 using System.Collections.Generic;
    public class Program {
     // Do not edit the class below except
      // Feel free to add new properties
      // and methods to the class.
      public class Node {
       public string name;
10
       public List<Node> children = new List<Node>();
       public Node(string name) {
13
         this.name = name;
14
16
       public List<string> BreadthFirstSearch(List<string> array) {
        // Write your code here.
18
         return null;
19
20
       public Node AddChild(string name) {
         Node child = new Node(name);
22
         children.Add(child);
         return this;
24
25
26
27
28
```

**Custom Output Raw Output** Submit Code

Run or submit code when you're ready.