AlgoExpert

Solution 1

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return this;

**Quad Layout** 

Java

12px

Sublime

Monokai

00:00:

Run Code

Our Solution(s)

```
Run Code
```

**Your Solutions** 

Solution 1 Solution 2 Solution 3

```
_{\rm 1} // Copyright @ 2020 AlgoExpert, LLC. All rights reserved.
import java.util.*;
class Program {
   static class Node {
    String name;
     List<Node> children = new ArrayList<Node>();
                                                                                       10
    public Node(String name) {
      this.name = name;
                                                                                       12
                                                                                       13
     // O(v + e) time | O(v) space
                                                                                       14
    public List<String> breadthFirstSearch(List<String> array) {
      Queue<Node> queue = new LinkedList<Node>();
                                                                                       16
      queue.add(this);
      while (!queue.isEmpty()) {
                                                                                       18
       Node current = queue.poll();
                                                                                      19
        array.add(current.name);
                                                                                       20
        queue.addAll(current.children);
                                                                                      22
      return array;
                                                                                      24
                                                                                      25
    public Node addChild(String name) {
                                                                                      26
                                                                                      27 }
      Node child = new Node(name);
      children.add(child);
```

```
1 import java.util.*;
class Program {
  // Do not edit the class below except
  // for the breadthFirstSearch method.
  // Feel free to add new properties
  // and methods to the class.
  static class Node {
    String name;
    List<Node> children = new ArrayList<Node>();
    public Node(String name) {
      this.name = name;
    public List<String> breadthFirstSearch(List<String> array) {
     // Write your code here.
      return null;
    public Node addChild(String name) {
      Node child = new Node(name);
      children.add(child);
      return this;
```

**Custom Output Raw Output** Submit Code

Run or submit code when you're ready.