Solution 1

26

Our Solution(s)

Run Code

Your Solutions

Solution 2

Sublime

```
Run Code
```

```
Solution 1
 1 // Copyright © 2020 AlgoExpert, LLC. All rights reserved.
   #include <vector>
4 #include <deque>
 5 using namespace std;
   class Node {
8 public:
9
     string name;
     vector<Node *> children;
10
11
12
     Node(string name) { this->name = name; }
13
14
     // O(v + e) time | O(v) space
15
     vector<string> breadthFirstSearch(vector<string> *array) {
16
       deque<Node *> queue{this};
17
       while (!queue.empty()) {
18
         Node current = *queue.front();
19
         queue.pop_front();
         array->push_back(current.name);
20
         for (int i = 0; i < current.children.size(); i++) {</pre>
21
           queue.push_back(current.children[i]);
23
24
       }
25
       return *array;
26
27
28
     Node *addChild(string name) {
29
       Node *child = new Node(name);
30
       children.push_back(child);
31
       return this;
32
33 };
```

```
1 #include <vector>
   using namespace std;
4 // Do not edit the class below except
 5 // for the breadthFirstSearch method.
 6 // Feel free to add new properties
 7 // and methods to the class.
 8 class Node {
9 public:
10
     string name;
11
     vector<Node *> children;
12
13
     Node(string str) { name = str; }
14
     vector<string> breadthFirstSearch(vector<string> *array) {
16
       // Write your code here.
17
       return {};
18
19
20
     Node *addChild(string name) {
21
       Node *child = new Node(name);
22
       children.push_back(child);
23
       return this;
24
25 };
```

Solution 3

