Our Solution(s) Run Code

Solution 1

```
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class Node {
  constructor(name) {
    this.name = name;
    this.children = [];
  }

  addChild(name) {
    this.children.push(new Node(name));
    return this;
  }

  // O(v + e) time | O(v) space
  breadthFirstSearch(array) {
    const queue = [this];
    while (queue.length > 0) {
      const current = queue.shift();
      array.push(current.name);
      for (const child of current.children) {
        queue.push(child);
      }
    }
    return array;
  }
}

exports.Node = Node;

```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```
// Do not edit the class below except
// for the breadthFirstSearch method.
// Feel free to add new properties
// and methods to the class.
class Node {
  constructor(name) {
    this.name = name;
    this.children = [];
  }

  addChild(name) {
    this.children.push(new Node(name));
    return this;
  }

  breadthFirstSearch(array) {
    // Write your code here.
  }
}

// Do not edit the line below.
exports.Node = Node;

```

Our Tests

Custom Output Submit Code

Run or submit code when you're ready.