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
  depthFirstSearch(array) {
    array.push(this.name);
    for (const child of this.children) {
      child.depthFirstSearch(array);
    }
    return array;
  }
}

exports.Node = Node;

```

Your Solutions Run Code

Solution 1 Solution 2 Solution 3

```
// Do not edit the class below except
// for the depthFirstSearch 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;
  }

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

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

```

Custom Output Submit Code

Run or submit code when you're ready.