## Input: A Node class that has a name and an array of optional children nodes



"When put together, nodes form an acyclic tree-like structure

Output: array // Traverse the tree using BFS approach Copecifically navigating the tree from left to right), stores all the nucles, names in the input arroy

## ["A", "B", "C", "D", "E", "F", "G", "H", "1", "J", "K"]

Idea: In BFS, we use a queue to keep track of what node we explore next. We first add the root node to the queue (enqueue) and the shifts it off (dequeu) with this node, we add it's children (Laft to Right) to the queue. Once added, we grab the next value in the queue by dequeing it and then repeat.

Time: O(U+C) (where U is the vertices and c are the edges) since at each vertex (node) we traverse, we explore it's edges

Spare: OCV) since we store every node in an array since we (at worst) we could have a one branch graph and Metore our queue would have all the vertices at once (v-1 or ocus)