1. BFS – Medium Problem

class Node:

def \_\_init\_\_(self, name):

self.children = []

self.name = name

def addChild(self, name):

self.children.append(Node(name))

return self

def breadthFirstSearch(self, array):

# Write your code here.

queue = [self]

while len(queue) > 0:

current = queue.pop(0)

array.append(current.name)

for child in current.children:

queue.append(child)

return array