# Lab 7 DSA Refresher Module

Duration: 04:00 pm to 05:10 pm. After 5:10 pm, no submissions allowed.

**Title:** Binary Tree Construction Challenge

You are a software engineer tasked with developing a feature for a tree visualization tool. Your next assignment involves constructing a binary tree from given inorder and postorder traversal arrays. These arrays represent the traversal sequences of the same binary tree. Your goal is to write a function that constructs the binary tree and returns it in a specific format.

#### **Problem Statement**

Given two integer arrays 'inorder' and 'postorder', where:

- `inorder` is the inorder traversal of a binary tree.
- `postorder` is the postorder traversal of the same binary tree.

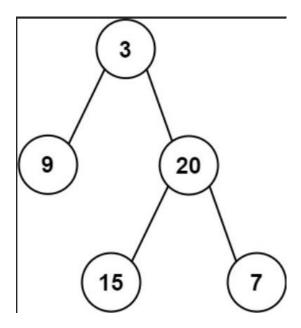
Construct and return the binary tree in a list representation.

#### **Example 1**

```
- **Input:**
```

- -inorder = [9,3,15,20,7]
- postorder = [9,15,7,20,3]
- \*\*Output: \*\* [3, 9, 20, null, null, 15, 7]

#### **Image Reference**



### **Example 2**

- \*\*Input:\*\*
- inorder = [-1]
- postorder = [-1]
- \*\*Output:\*\* [-1]

## Requirements

- 1. Develop a function that takes `inorder` and `postorder` arrays as input and constructs the corresponding binary tree.
- 2. Return the binary tree in a list representation, where the list represents the tree in level-order traversal.

Can you construct the binary tree from the given inorder and postorder traversal arrays?