Week 13- Day 5 : Coding Challenge

(Maximum marks -15)
Q-1) Q1. Represent a graph using adjacency list and adjacency matrix. (5 marks)
(super-easy)

Don't just blindly copy the code, try to understand each line of code.

Q-2)Palindrome Number - Try using BFS in this (5 marks)
https://leetcode.com/problems/palindrome-number/
(Easy)

Given an integer x, return true if x is palindrome integer.

An integer is a palindrome when it reads the same backward as forward. For example, 121 is palindrome while 123 is not.

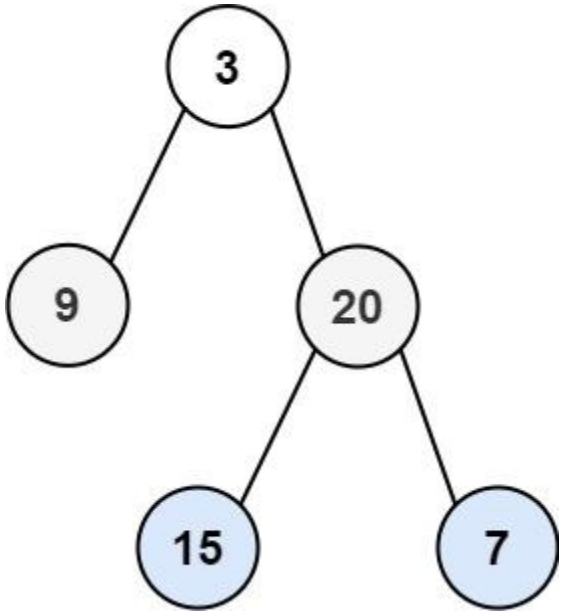
Example 1:

Input: x = 121
Output: true
Example 2:

Input: x = -121
Output: false
Explanation: From left to right, it reads -121. From right to left, it becomes 121-. Therefore it is not a palindrome.

Q-3) Binary Tree Zigzag Level Order Traversal (5 marks)
https://leetcode.com/problems/binary-tree-zigzag-level-order-traversal/
(Medium)
Given the root of a binary tree, return *the zigzag level order traversal of its nodes' values*. (i.e., from left to right, then right to left for the next level and alternate between).

Example 1:



Input: root = [3,9,20,null,null,15,7]
Output: [[3],[20,9],[15,7]]

Example 2:

Input: root = [1]
Output: [[1]]

Marks distribution:
Question 1,2 and 3 carry 5 marks each.