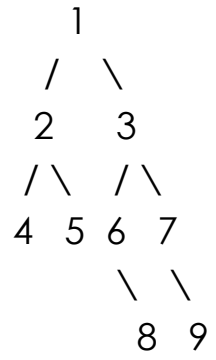
1. Implement generic unordered set and unordered map using vector to store data & Quadratic Probing for collision handling strategy.
2. Print a Binary Tree in Vertical Order



   The output of print this tree vertically will be:

   4
   2
   1 5 6
   3 8
   7
   9

3. Find union and intersection of two linked list
4. Given a linked list where each node stores two address , one address of next node and a random address of any node of the list. You need to create a copy of this linked list. [Using Hash Table as discussed in class]
5. Given two arrays: arr1[0..m-1] and arr2[0..n-1]. Find whether arr2[] is a subset of arr1[] or not. Both the arrays are not in sorted order
6. Implement Graph Class for unweighted, undirected Graph with Adjacency Matrix with following functions
   a. Add Edge
   b. Delete Edge
   c. BFS
   d. DFS
   e. printShortestPath(int src, int dest)
   f. findAllConnectedComponents()
   g. isConnected()
   h. printMinimumSpanningTreeEdges()
   i. isCyclePresent()

7. Given a snake and ladder board, find the minimum number of dice throws required to reach the destination or last cell from source or 1st cell
8. Given a binary matrix[all elements either 0 or 1], print all unique rows of the given matrix
9. Given two strings S and T. Write a function that returns the minimum length substring in S which contains all characters in T.
10. Write a function that takes a string S, and an integer value N, and returns whether or not the string S contains at most N different characters i.e. total N or less distinct characters. The character comparison should be case insensitive i.e. you should ignore their case.

    Example:
    Input –
    S = "HelloWorld"
    N = 6
    Output = false (string contains 7 different character which is > 6)

    Input –
    S = "abbcdabbcddee"
    N = 7
    Output = true (string contains 5 different character which <= 7)