Which of the following is FALSE about a doubly linked list:The insertion and deletion of a node take longer time than singly linked list

In a min heap:minimum values are stored,parent nodes have less value than child nodes

If several elements are competing for the same bucket in the hash table, what is it called:Collision

What is the search complexity in direct addressing:O(1)

Which of the following statements about binary trees is NOT true:Every binary tree has at least one node

Which of the following is false about a binary search tree:None of the mentioned

What is the special property of red-black trees:color which is either red or black and root should always be black color only

What are the operations that could be performed in O(log n) time complexity by red-black tree:Insertion, deletion, finding predecessor, successor

If you apply the Breadth-first search (BFS) algorithm to traverse a graph G, what result will you get:Tree

In the algorithm for computing a topological sort of a directed acyclic graph G, after a depth first search (DFS) on G, the algorithm outputs the vertices in:Increasing order of finishing time obtained from the DFS,Decreasing order of finishing time obtained from the DFS

Given an undirected graph G with n nodes, its n-by-n adjacency matrix has following properties: (i) all diagonal elements are 0’s and (ii) all non-diagonal elements are 1’s. Which of the following statements is TRUE:Graph G has multiple distinct MSTs, each of cost n-1,Graph G has multiple spanning trees of different costs

Given an undirected connected graph G with distinct edge weight, let emax be the edge with maximum weight and emin the edge with minimum weight. Which of the following statements is FALSE:No minimum spanning tree contains emax.

complexity: build = o(n) , get = o(1), hash : chain search/delete O(chain length), probing: O(n)//worst case. BTS insert/delete: O(tree height),RBT: oporattions: O(n log n)















