Mid Term-II, 09/ 04/ 2025

Time:50 mill

Paper: Competitive Programming and Efficient Coding (ITPE 212)

Instructions: All questions are compulsory and assume missing data, if any.

Write code for creating a XOR linked list and find cycle in O(n) time complexity and O(1)

 Space complexity.
Write a function/module to determine whether a given binary tree is skewed.
Vol. is a function/module with 3. You're given start and end times for multiple lectures. Write module with O(nlogn) time Complexity for finding minimum number of classrooms required so that no lecture overlaps in the same room.