LAB ASSIGNMENT

Advanced Data Structures and Algorithms LAB

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1. Given an array of string words. Return all strings in words which is substring of another word in any order. String words[i] is substring of words[j], if can be obtained removing some characters to left and/or right side of words[j].

   **Example 1:**
   **Input:** words = [“mass”,”as”,”hero”,”superhero”]
   **Output:** [“as”,”hero”]
   **Explanation:** “as” is substring of “mass” and “hero” is substring of “superhero”

**Given an Undirected Graph G with V vertices (Numbered from 0 to V-1) and E edges,**

2. Check whether it contains any cycle or not.
3. Count the number of components in the given graph.
4. Find the length of the longest common subsequence of BFS and DFS traversals of given graph G.
5. Check whether the graph is bipartite or not.