

End Semester Lab Test

Subject: Algorithm Lab (CS205) Time: 2 hour 30 minutes, Full Marks: 15

You are given list of city names (user has to provide n [number of cities] and city names). Take a city name as a vertex of a graph and edge (undirected) between two cities exist iff they have at least one character in common. Weight of an edge will be edit distance between two city names. Write efficient algorithm to find out following things. Your program will have following 2 menus.

1. Is the graph connected?
2. Is the graph having any triangle?

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Marks Division:

Building correct graph with correct edge weight: 5

Is the graph connected? Correct algorithm-4 efficiency-1

Is the graph having any triangle? Correct algorithm -4 efficiency-1