

Assignment 5 – deadline: lab 6 (week 11-12)

Solve 1 of the 2 problems below (assigned to you in the Attendance Table) using the graph that you implemented in Assignments 1 and 2.

- 1) Given a connected undirected graph check if a graph is an Eulerian graph and find an Eulerian circuit using the Hierholzer algorithm. Bonus (1p): implement it in $\Theta(n+m)$.
- 2) Given a connected undirected graph check if it is homeomorphic with a complete graph or with a complete bipartite graph. Bonus (1p): implement it using only one graph traversal.