**Lab 4**

**Exercise 1**

The algorithms are implemented in the file exe1.c, the data structures are implemented in structs.h.

Test were carried out by implementing two general testing methods for undirected and directed graphs which in turn calls specific testing methods that implements a certain algorithm.

The graph is created as either a directed or undirected graph in the main.c file. Depending of the method call in main.c the graph is set with data as either directed or undirected in the overall test method. For testing the different algorithms of exercise 1 there is test methods for each one of the algorithms where different values can be set to the nodes for testing neighborhood of different vertices, or change the graph entirely by setting new values to the edge variable in either the testDirectedGraph or the testUnDirectedGraph method.