LABWORK 8

Due date: 23:55 31.03.2018 (There is %10 penalty for each day)

Part A:

In the given graph class, implement the methods below:

- Write a function which returns the indegree of input vertex (15 pts)
 int findInDegree(int c);
- Write a function which returns the indegree of input vertex c (15 pts)
 int findOutDegree(int c);
- Write a function which returns the total number of edges in the graph (15 pts)
 int findNumberOfEdges();
- Write a function which displays all indegree and outdegree of all vertices in the graph and total number of edges (15 pts)
 void displayInfo();

Part B:

- In the main function display the order in which the vertices are visited in BFS and DFS, using the implementation given. (10 pts)
- Write a function which finds the shortest path by using BFS. Given an arbitrary pair of nodes a and b, find the order of nodes in the shortest path between a and b, as well as the distance when this path is chosen. (30 pts)