Clarifications for Lab Sheet 2

Q2. As part of the output, you don't have to print all shortest path/paths between every pair of vertices. Your program should print the diameter of the graph and all the shortest path/paths whose length is equal to the diameter.

However, if you have already written the code for printing all the shortest path/paths, there is no need to modify.

Q5. The input to the problem will be the vertex set V, factor of each vertex and δ. $|V| \leq 1000$, f and δ are positive integers.

Q6. After constructing G', suppose you there are 2 or more vertices using any one of which G' can split into 2 or more connected components. Say, there are 2 such vertices *x* and *y* and if you remove either *x* or *y* and the corresponding incident edges, then the resulting graph consists of 2 or more connected components. In such a case, it is sufficient to identify either *x* or *y*. There is no need to identify both.

Your output should print the vertex which needs to be deleted and also the resulting connected components in the form of adjacency matrices.